



SPRWORK INFOSOLUTIONS

Technology. Innovation. Digital Excellence.

SPRWork Infosolutions is a technology solutions company delivering innovative digital products and services for businesses across industries.

We specialize in **Web Development, App Development, Digital Marketing, and AI Solutions**, helping businesses transform ideas into scalable, user-friendly, and high-performing digital experiences.

What We Do

Web Development

Scalable and responsive web applications built around business needs.

App Development

Modern mobile applications designed for seamless user experiences.

AI Solutions

AI-powered applications, automation, chatbots, integrations, and intelligent business solutions.

Digital Marketing

Result-oriented digital strategies that help businesses improve their online visibility and reach.

1. AR/VR Training & Vendor Management Platform



A SaaS-based platform developed for a US-based client to support safety and behavioral training through AR/VR technology. The platform provides a centralized dashboard for managing clients, administrators, trainers, devices, groups, and training courses.

Super Admins can create and manage client accounts, assign devices and courses, and configure dedicated client portals. Each client receives a unique URL and branded environment, ensuring that their data and resources remain specific to their organization.

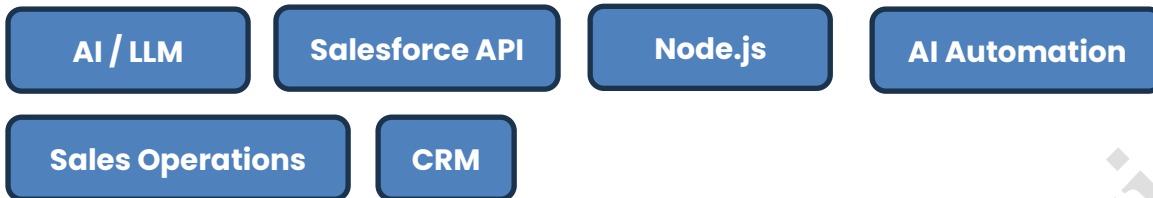
Key Features

- **Client & Admin Management**
Create and manage clients, client administrators, and trainer administrators.
- **Device & Course Assignment**
Assign devices and training courses to specific clients and groups.
- **Dedicated Client Portals**
Provide each client with a dedicated URL, branding, and isolated data environment.
- **Group Management**
Organize devices, courses, and trainers into dedicated groups.
- **Secure Authentication**
JWT-based session management for secure user authentication.

- **Email Communication**

AWS SES integration for sending system-generated emails.

2.AI-Powered Salesforce Revenue Intelligence Platform



An AI-powered revenue intelligence solution built on Salesforce that transforms CRM data, sales playbooks, and meeting information into actionable pipeline insights and automated CRM operations.

The platform gives revenue teams a centralized command center to monitor pipeline health, assess risk exposure, and evaluate deal performance. A natural-language AI agent allows users to run SOQL queries and perform CRM updates through simple prompts. An AI-powered playbook repository uses internal documents to provide contextual answers, while calendar, meeting-recording, and third-party integrations help keep CRM data continuously synchronized.

Key Features

- **Pipeline & Revenue Analytics**

Custom dashboards for pipeline health, risk exposure, and deal-health scoring.

- **Natural-Language CRM Automation**

Run SOQL queries and execute CRM updates using plain-English prompts.

- **Intelligent Query Processing**

Transparent query results supported by planning, retries, and reasoning.

- **AI-Powered Knowledge Repository**

AI-tagged playbooks with an assistant for finding answers from internal documents.

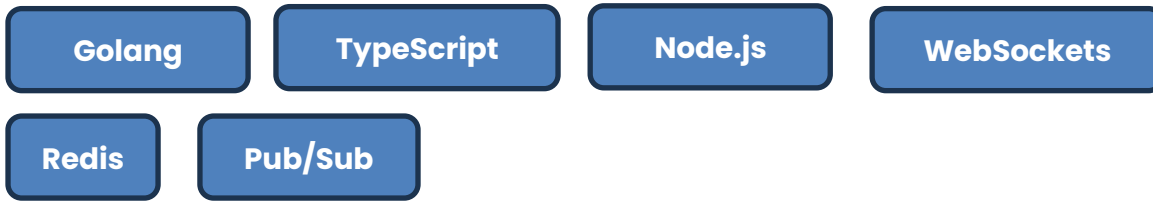
- **Business Integrations**

Salesforce, Microsoft, and Google integrations with audit logging.

- **Calendar & Meeting Sync**

Calendar synchronization and meeting-recording capture for automated CRM operations.

3. American Football Betting Application



A web and mobile betting application developed for a US-based client, focused on betting across American football leagues.

The project involved migrating an existing Golang-based application to Node.js due to performance requirements. The system consists of multiple microservices, with the Games Service selected as the initial service for migration. The service was rebuilt using Node.js and TypeScript and integrated with the remaining services to maintain smooth communication across the application.

Key Capabilities

- **Golang to Node.js Migration**
Migrated existing services from Golang to Node.js to address performance requirements.
- **Microservices Architecture**
Maintained a distributed architecture with independently running services.
- **Games Service Migration**
Successfully migrated the Games Service and integrated it with the existing services.
- **TypeScript Development**
Implemented the migrated Node.js services using TypeScript.
- **Real-Time Communication**
Services communicate through **gRPC and WebSockets** for efficient data exchange.
- **Pub/Sub Messaging**
Redis is used to support the application's Pub/Sub communication mechanism.

4. Microservices-Based EdTech & University Search Solution



A modern EdTech platform designed to assist students with university and program selection by providing comprehensive education and admission-related information.

The existing application was transformed into a scalable microservices architecture using React, Node.js, and AWS. The platform enables students to search and explore **3,000+ university programs across six countries**, while integrating third-party services to support search, payments, CRM, and content management.

Key Capabilities

- **Microservices Architecture**
Transformed the conventional application into a scalable, independently managed microservices ecosystem.
- **University & Program Search**
Enables students to discover and explore 3,000+ university programs across six countries.
- **Modern Technology & Managed Services**
Integrated MongoDB, Algolia, Zoho, and Stripe for database management, search, CRM, and payments.
- **AWS Cloud Infrastructure**
Implemented Lambda, API Gateway, CloudFront, S3, WAF, and Route 53 for a secure and scalable cloud environment.
- **Infrastructure as Code**
Automated infrastructure provisioning and management using AWS CloudFormation templates.
- **Frontend & Backend Development**
Built the frontend with React.js and developed backend APIs using Node.js.
- **Content Management**
Integrated Webflow as the content management platform.

5.Targeted Content Delivery & Ad-Tech Analytics Solution



A targeted content delivery platform designed for ad-tech companies to collect, process, and analyze mobile application data for personalized content delivery and data-driven insights.

The solution combines mobile data collection with machine learning capabilities to support targeted content delivery. Its architecture includes modern serverless APIs alongside legacy backend services, providing a flexible infrastructure for data processing, administration, and content management.

Key Capabilities

- **Mobile Data Collection**
Native Android application built with Java for collecting and transmitting application data.
- **Serverless API Architecture**
APIs built using AWS API Gateway, Lambda, and MySQL, with Lambda functions developed in TypeScript.
- **Legacy API Infrastructure**
Existing PHP-based APIs hosted on Amazon EC2 and served through an Nginx reverse proxy.
- **React-Based Admin Panel**
Administrative interface developed with ReactJS and delivered through the Nginx proxy.
- **Data Processing APIs**
Dedicated data server APIs developed using TypeScript, Fastify, and Sequelize ORM.
- **Machine Learning & Data Analysis**
Collected mobile data is processed and analyzed using machine learning algorithms to support targeted content delivery.

6.Multi-Tenant SaaS Platform for Training Management



A SaaS-based platform that enables multiple clients to manage their training operations through dedicated portals while maintaining complete separation of their data.

Each client accesses the platform through a dedicated URL and can manage **devices, courses, groups, and trainers** through a centralized dashboard. Groups can be configured with specific devices, courses, and trainers, while device assignments are restricted to a single group to maintain accurate resource management.

Trainers can be invited through email and assigned to specific groups and courses. They can also securely access their own dashboard and remote-assistance functionality.

Key Capabilities

- **Multi-Tenant Architecture**
Supports multiple clients through dedicated URLs with isolated client-specific data.
- **Device & Resource Management**
Manage devices, courses, groups, and trainer assignments from a centralized dashboard.
- **Group-Based Assignment**
Assign devices, courses, and trainers to specific groups while preventing duplicate device assignments.
- **Trainer Management**
Invite trainers through email and assign them to relevant groups and courses.
- **Trainer Dashboard & Remote Assistance**
Provides trainers with dedicated access to their dashboard and remote-assistance functionality.

- **Secure Authentication**

JWT-based session management for secure user access.

- **Email & Asset Management**

AWS SES is used for email communication, while Amazon S3 stores application images.

7. K–12 Educator Learning, Resources & Community Platform



A free digital learning and community platform designed to provide K–12 educators with access to professional training, classroom activities, educational resources, and peer support.

The platform encourages educators to learn and engage with the wider community by asking questions, sharing feedback, exchanging ideas, and supporting fellow teachers. The solution was developed with an end-to-end focus on platform architecture, access control, activity workflows, search performance, and system scalability.

The platform also involved modernizing legacy infrastructure by migrating existing AWS Lambda functions into a structured Node.js application.

Key Capabilities

- **Role-Based Access Control**

Designed roles and permissions to manage secure access across the platform.

- **Intelligent Search & Caching**

Implemented OpenSearch-based indexing and caching to improve permission and activity retrieval.

- **Event-Driven Architecture**

Established event-driven communication across platform services for scalable and efficient workflows.

- **Legacy System Modernization**

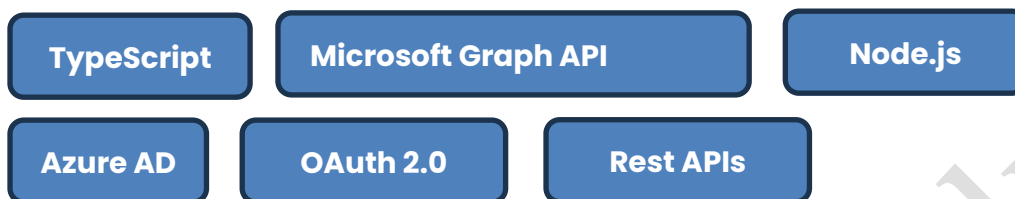
Migrated existing AWS Lambda functions into a structured Node.js

application.

- **Identity & CRM Integration**

Integrated Okta for identity management and Salesforce for CRM data and platform integration.

8. AI-Ready SharePoint Document Access & Integration Platform



A secure TypeScript and Node.js application that connects AI systems with SharePoint Online, enabling users to access enterprise documents through a permission-aware interface.

The solution uses Azure AD authentication and Microsoft Graph API to provide secure access to SharePoint sites, drives, and documents. It includes both a web interface and RESTful APIs, with access controls designed to ensure users can only view and interact with content they are authorized to access.

Key Capabilities

- **Secure Azure AD Authentication**

Microsoft sign-in implemented using MSAL and OAuth 2.0.

- **Permission-Aware Access**

Users can access only the SharePoint sites, drives, and documents permitted to them.

- **Document Management**

Browse, list, and download PDF, Word, Excel, and TXT documents.

- **Enterprise Document Search**

Full-text search across SharePoint sites and drives with file-type filtering.

- **Secure Session Management**

Protected token storage and session management for secure user access.

- **AI & SharePoint Integration**

RESTful APIs provide a secure bridge between AI systems and SharePoint Online.

9. AI-Powered RV Rental Customer Support Platform



A customer support chatbot platform designed to help users quickly find information and answers related to RV rentals.

The solution provides a responsive, real-time chat experience built with React and TypeScript. Authenticated users are provided with a dedicated server-side session, ensuring their conversations remain separate while maintaining a single active session for each user.

Key Capabilities

- **Real-Time Chat Experience**

Enables customers to ask questions about RV rentals and receive responses through an interactive chat interface.

- **Single-Session Management**

Maintains one active session for each authenticated user.

- **Secure Server-Side Sessions**

Tracks user state on the server to provide a consistent and controlled chat experience.

- **Responsive User Interface**

Provides an accessible chat experience across different screen sizes.

10. AI-Powered Contract Management Assistant

React.js

Langchain

Node.js

Microsoft Office Add-ins API

Redux

Next.js

AI/LLM

An AI-powered Microsoft Word extension designed to help legal professionals create, review, edit, and manage contracts more efficiently.

The solution integrates directly with Microsoft Word, providing intelligent assistance for contract analysis, document editing, and content generation. Users can work in **Edit Mode** to make AI-assisted document changes or **Comment Mode** to generate suggestions and annotations. AI personas allow users to customize the style of responses based on their requirements, while the integrated chat interface enables users to ask questions about contract clauses, legal terminology, and document structure.

Key Capabilities

- **Dual Working Modes**

Edit documents directly with AI assistance or generate AI-powered comments and annotations.

- **AI Persona Selection**

Customize AI response styles according to specific professional requirements.

- **Interactive AI Chat**

Ask questions about contracts, clauses, legal terminology, and document structure.

- **Conversation History**

Maintain previous interactions for easy reference and audit purposes.

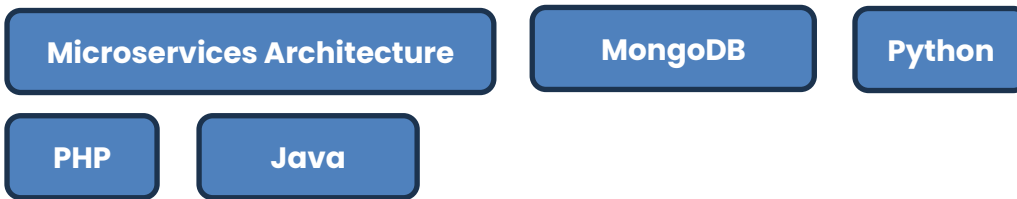
- **Intelligent Document Editing**

Apply AI-assisted modifications directly within Microsoft Word.

- **Contract Analysis & Recommendations**

Analyze contract clauses and provide relevant suggestions and recommendations.

11. Scalable Microservices Backend for Ride-Hailing Operations.



A scalable backend system developed from the ground up to power rider and driver applications for a ride-hailing platform.

The solution follows a microservices architecture, with core business functions such as ride matching, pricing, trip management, and payments implemented as independently deployable services. Different technologies are used across services based on their specific requirements, while dedicated databases support operational and transactional workloads.

Key Capabilities

- **Microservices Architecture**
Independent services for ride matching, pricing, trip management, and payments.
- **Real-Time Driver Matching**
Identifies and connects riders with nearby available drivers.
- **Dynamic Ride Operations**
Supports core trip lifecycle and pricing workflows through dedicated services.
- **Separated Data Management**
MongoDB Atlas manages ride and trip data, while AWS Aurora PostgreSQL handles transactional information such as payments and accounts.
- **Independent Service Deployment**
Each business service can be developed, deployed, and scaled independently.

12. Generative AI Platform for Investment & Fund Intelligence.

Generative AI

Multi-Agent Systems

Semantic Search

NLP

AI Summarization

Document Intelligence

A generative AI-powered platform designed for asset and investment managers to simplify fund analysis, due diligence, and investor reporting.

The platform enables investment teams to interact with complex fund data, documents, and performance information using natural-language queries. It combines document processing, semantic search, and contextual summarization to help users extract relevant insights from pitch decks, PPMs, LPAs, factsheets, and historical fund data.

Custom dashboards provide visibility into areas such as **fund performance, exposures, fees, and team structures**, while collaborative features such as annotations, comments, and shared views support efficient teamwork. Role-based access and enterprise-grade security help protect sensitive investment information throughout the fund lifecycle.

Key Capabilities

- **Base & Workspace Management**
Dedicated subdomains for bases with flexible workspace selection and creation.
- **Intelligent Search**
Quickly search across complex fund data and documents using natural-language queries.
- **Document Intelligence**
Process and analyze investment documents to extract relevant information and insights.
- **Fund Analysis & Due Diligence**
Accelerate research and evaluation across fund performance, exposures, fees, and other investment metrics.
- **Custom Investment Dashboards**
Provide tailored visibility into fund information based on LP and GP requirements.
- **Collaboration & Knowledge Sharing**
Support annotations, comments, shared views, and collaborative investment workflows.

- **Activity History**

Maintain a chronological history of user activities with quick access and deletion controls.

- **Enterprise Security**

Role-based access and secure data handling designed for sensitive financial and investment information.

13. AWS Cloud Infrastructure Optimization



A cost-optimized AWS infrastructure designed to support more than 1,000 users while maintaining scalability, high availability, and minimal downtime.

The solution focuses on optimizing the production-like environment through strategic infrastructure changes, including replacing ALB with CLB to reduce costs, implementing Nginx as an ingress controller for flexible traffic routing, and adopting EFS for scalable multi-AZ storage. Autoscaling, ingress rules, and migration strategies were also optimized to improve overall infrastructure efficiency and reliability.

Key Capabilities

- **Cost-Optimized AWS Infrastructure**

Optimized cloud resources and load-balancing architecture to reduce operational costs.

- **Scalable Traffic Management**

Nginx Ingress Controller enables flexible routing and efficient traffic distribution.

- **High Availability & Autoscaling**

Infrastructure is optimized to handle 1,000+ users while maintaining availability and minimizing downtime.

- **Multi-AZ Storage**

EFS provides scalable and shared storage across availability zones.

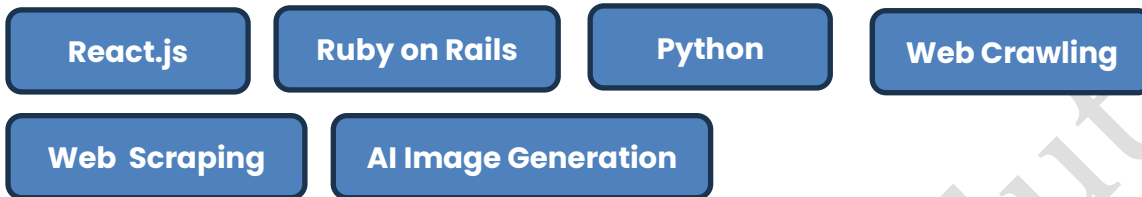
- **Automated Deployments & Tenant Onboarding**

Supports streamlined deployments and seamless onboarding of new tenants.

- **Monitoring & Performance Management**

Grafana and Prometheus provide infrastructure monitoring, metrics, and performance visibility.

14. AI-Powered Social Media Content Platform



An AI-powered social media content platform designed to streamline the process of creating engaging, platform-specific content for businesses and marketing teams.

The solution automates the content creation workflow by collecting relevant information from websites and online sources, analyzing the gathered material, and generating customized social media posts. AI-generated copy and visuals are tailored for platforms such as **Instagram, LinkedIn, Facebook, and Pinterest**, helping users maintain consistent and relevant content across multiple channels.

A React-based interface allows users to review, edit, organize, and manage generated content before publishing or scheduling it.

Key Capabilities

- **AI-Powered Content Generation**

Automatically creates ready-to-publish social media content based on relevant source information.

- **Multi-Platform Content Creation**

Generates platform-specific posts for Instagram, LinkedIn, Facebook, and Pinterest.

- **Web Crawling & Data Collection**

Collects relevant information from websites and online sources to support content generation.

- **AI-Generated Visuals**

Creates suitable images and visual assets to complement social

media posts.

- **Platform-Specific Copywriting**

Uses OpenAI-powered content generation to adapt messaging and writing styles for different social platforms.

- **Content Review & Management**

React-based interface enables users to review, edit, organize, and manage generated posts.

15. Auto Dealer Financing Platform

React.js

PostgreSQL

Next.js

REST APIs

Third-Party Vehicle APIs

A digital financing platform designed for car dealerships to access credit lines for purchasing and expanding vehicle inventory without requiring upfront capital.

The solution enables dealers to use approved credit facilities to purchase vehicles and repay the borrowed amount with applicable interest, providing a flexible financing model that supports inventory growth and business expansion.

Key Capabilities

- **Dealer Financing Management**

Provides credit-based funding options to support vehicle inventory purchases.

- **Vehicle Inventory Funding**

Enables dealers to acquire vehicles using available credit instead of upfront funds.

- **Vehicle Information Lookup**

Integrates third-party APIs to retrieve vehicle information using VIN numbers.

- **Scalable Backend Architecture**

Backend services developed using Nest.js for reliable application and API management.

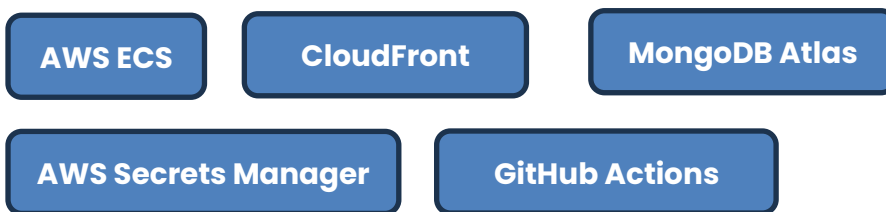
- **Responsive Web Interface**

React.js frontend provides an intuitive experience for dealers and platform users.

- **Database Management**

PostgreSQL is used to securely manage application and financing-related data.

16. Cloud-Native AWS Infrastructure.



A cloud-native infrastructure solution designed to deliver a scalable, secure, and reliable application environment on AWS.

The architecture separates development and production environments while using managed AWS services for application hosting, content delivery, database security, email communication, and deployment automation. Backend APIs run in containerized environments on Amazon ECS, while the frontend is hosted on Amazon S3 and distributed globally through CloudFront.

Key Capabilities

- **containerized Backend Infrastructure**

Deploys backend APIs using Amazon ECS with Fargate for scalable and managed container execution.

- **Global Frontend Delivery**

Hosts frontend assets on Amazon S3 and distributes them through CloudFront for fast global access.

- **High Availability & Load Balancing**

Uses Application Load Balancer (ALB) to efficiently distribute application traffic.

- **Secure Container Management**

Amazon ECR provides secure storage and management of container images.

- **Database & Secrets Management**

MongoDB Atlas manages application data, while AWS Secrets Manager protects sensitive credentials.

- **Automated Email Communication**

AWS SES handles reliable application email delivery.

- **CI/CD Automation**

GitHub Actions automates build and deployment workflows for continuous integration and streamlined releases.

17. VR Screen Sharing Platform



A proof-of-concept web application that enables multiple users to join a shared room using their email ID and room ID and securely share their screens with other participants in the same room.

The solution uses WebRTC for real-time peer-to-peer communication, while a Node.js-based signaling server manages connection establishment between browsers. A React-based frontend provides the user interface and handles room access, screen sharing, and WebRTC connection workflows.

Key Capabilities

- **Room-Based Screen Sharing**

Users can join a specific room using their email ID and room ID and share their screens with other participants.

- **WebRTC Communication**

Enables real-time peer-to-peer communication between connected browsers.

- **Signaling Server**

Socket.io-based signaling server facilitates connection setup and communication between WebRTC peers.

- **React-Based Interface**

Provides the frontend experience for joining rooms, initiating

connections, and managing screen-sharing functionality.

- **Real-Time Connectivity**

Supports browser-to-browser communication for low-latency screen sharing.

18. Auto Dealer Financing Platform

React.js

PostgreSQL

Next.js

REST APIs

Third-Party Vehicle APIs

A digital financing solution designed to help automobile dealers access credit facilities for expanding their vehicle inventory without requiring upfront capital.

The platform enables dealers to purchase vehicles using an approved credit line and repay the financed amount with applicable interest. It provides a flexible funding model that helps dealerships maintain and grow their inventory while managing their financing requirements.

Key Capabilities

- **Dealer Credit Management**

Supports credit-based financing for vehicle purchases and inventory expansion.

- **Vehicle Financing**

Enables dealers to purchase vehicles using available credit facilities.

- **VIN-Based Vehicle Information**

Integrates third-party APIs to retrieve vehicle details using the Vehicle Identification Number (VIN).

- **Secure Backend APIs**

Backend services are developed using Nest.js for structured and scalable application management.

- **Responsive Web Application**

React.js powers the frontend interface for an intuitive user experience.

- **Relational Database Management**

PostgreSQL is used for storing and managing application data.

19. Home Loan Marketplace & Administration Platform

Django

Laravel

Next.js

PostgreSQL

Microservices Architecture

A proprietary web-based platform that brings together home loan packages and interest rates offered by different banks, while providing administrators with centralized tools to manage the entire lending ecosystem.

The platform enables administrators to create and manage loan packages, membership plans, banks, and bankers. It also supports the review and approval of user-submitted information, documents, and payouts, helping streamline administrative and verification workflows.

Key Capabilities

- **Loan Package Management**

Create, update, and manage home loan packages and associated interest rates.

- **Bank & Banker Management**

Maintain bank profiles and manage associated banking professionals.

- **Membership Management**

Configure and manage membership plans and pricing.

- **User Submission & Document Review**

Review user-submitted details and supporting documents through the administration panel.

- **Payout Management**

Verify and approve payouts submitted by users.

- **Microservices Architecture**

Backend services are developed using Django, Laravel, and Nest.js to support different application functions.

- **Secure Authentication & Content Management**

Keycloak is used for authentication, with Strapi supporting content management requirements.

- **Modern Web Interface**

Svelte.js is used to build the frontend application.

20. Debt Recovery Management Platform



A two-sided digital platform developed for debt-recovery agencies and the creditors they serve. The solution provides a centralized administration environment for managing debt portfolios, debtor cases, recovery activities, and reporting, alongside a self-service portal for creditor clients.

Creditors can submit new cases through a guided workflow, upload multiple case files in bulk, and monitor recovery progress through their dedicated dashboard. The administration console provides visibility into portfolio performance, case activity, and recovery outcomes.

Key Capabilities

- **Portfolio Management**

Centralized dashboards for monitoring recovery KPIs, case volumes, and geographical distribution.

- **Debtor Case Management**

Maintain detailed case records including financial information, current status, and activity history.

- **Case Submission & Bulk Import**
Guided case creation wizard with support for bulk CSV uploads.
- **Client & User Management**
Manage creditor organizations, users, roles, invitations, and access permissions.
- **Recovery Reporting**
Track collected amounts, outstanding balances, and overall recovery performance.
- **Client Self-Service Portal**
Creditors can submit cases and monitor collection progress through their own dashboards.
- **Audit & Data Management**
Maintain activity logs, recover deleted records, and manage workspace-level settings.

21. Tours & Experiences Booking Platform



A modern travel website designed to showcase tours, experiences, and destinations while guiding visitors toward booking.

The platform combines an experience-focused homepage with dedicated destination pages, detailed tour listings, private tour offerings, corporate and MICE experiences, and an editorial travel blog. Rich tour pages provide essential information such as galleries, inclusions, and routes, while reviews and multi-currency support enhance customer confidence and simplify the booking journey.

Key Capabilities

- **Experience-Focused Homepage**
Engaging homepage with tour discovery and search functionality.
- **Destination Discovery**
Destination mega-menu and dedicated city landing pages for easy

exploration.

- **Detailed Tour Pages**

Rich product pages featuring galleries, inclusions, routes, and tour information.

- **Private & Corporate Tours**

Dedicated experiences for private groups, corporate travel, and MICE events.

- **Travel Content & Guides**

Editorial blog featuring destination insights and travel guides.

- **Reviews & Social Proof**

Customer reviews integrated throughout the experience to build trust.

- **Multi-Currency Support**

Enables international visitors to view travel offerings in their preferred currency.

- **Conversion-Focused Design**

Strategic navigation, content, and calls-to-action designed to encourage bookings.

22. Property Management & Rental Operations Platform

Property Management

Role Based access control

Task Management

AI Powered Data Import

Document Processing

Digital Onboarding

A comprehensive property management platform designed to manage the complete rental lifecycle across landlords, tenants, suppliers, and administrators.

The solution provides dedicated portals for each user role, enabling landlords to manage properties, units, leases, tenants, and maintenance tasks, while tenants can access leases, documents, consumption details, and parking services. Suppliers can manage assigned maintenance activities, and administrators have centralized oversight of the entire platform.

The platform also simplifies portfolio migration through AI-assisted onboarding, allowing

existing property data to be imported from PDFs, images, and spreadsheets. A digital move-in workflow captures property conditions and meter readings to create a structured record from the beginning of each tenancy.

Key Capabilities

- **Multi-Role Portals**
Dedicated experiences for landlords, tenants, suppliers, and super administrators.
- **Property & Lease Management**
Manage houses, units, leases, tenant records, and verification workflows.
- **Digital Move-In Management**
Capture property conditions, checklists, and meter readings through a structured digital process.
- **Maintenance & Task Management**
Create tasks, schedule recurring jobs, manage calendars, and assign work to suppliers.
- **Tenant Services**
Provide access to documents, messaging, consumption information, and parking requests.
- **AI-Powered Portfolio Onboarding**
Import and organize existing property information from PDFs, images, and spreadsheets.
- **Centralized Administration**
Provide administrators with comprehensive oversight of properties, users, and operational activities.

23. AI-Powered Accounts Receivable Management Platform

AI Assisted Automation

Account Receivable Management

Audit Trail

Stripe

Payment Portal

Invoice Processing

An AI-assisted accounts receivable platform designed to help finance teams monitor outstanding invoices, automate collection workflows, and accelerate payment recovery.

The platform provides a centralized view of receivables, allowing teams to capture invoices, monitor overdue balances, and maintain a complete history of customer interactions. Automated reminder workflows help streamline collection activities, while a secure customer payment portal enables convenient invoice settlement.

Key Capabilities

- **AR Performance Dashboard**

Monitor receivables aging, DSO, overdue balances, and collection performance.

- **Digital Invoice Capture**

Upload and process invoices through a simple drag-and-drop interface.

- **Customer Interaction Timeline**

Maintain a complete record of emails, SMS messages, calls, notes, and collection activities.

- **Automated Collection Workflows**

Schedule reminder sequences and use reusable communication templates for consistent follow-ups.

- **Online Payment Portal**

Provide customers with secure payment pages and shareable payment links.

- **Credits & Referral Management**

Manage customer credits and referral-related activities within the platform.

- **Secure Financial Tracking**

Maintain a tamper-evident audit trail for financial and collection activities.

- **Payment Processing & Payouts**

Integrate Stripe to support payment processing and payouts.

24. Mortgage Agent CRM Platform

Vue.js

JavaScript

Node.js

GraphQL

Apollo Server

MongoDB

HTML/CSS

A comprehensive CRM platform designed for mortgage brokers and agents to manage customer relationships, streamline loan applications, and organize deal-related documentation from a centralized workspace.

The platform supports multiple mortgage workflows, including refinancing and mortgage switching or transfers. It helps agents maintain client communication, manage application information, and organize the documentation required throughout the mortgage process.

Key Capabilities

- **Client Relationship Management**

Centralize customer information and interactions to help mortgage professionals manage their client relationships efficiently.

- **Mortgage Application Management**

Streamline application workflows and manage different types of mortgage deals.

- **Multiple Deal Workflows**

Support refinancing, mortgage switches, transfers, and related application processes.

- **Document Management**

Organize and manage client documentation associated with mortgage applications.

- **GraphQL-Based Data Access**

GraphQL enables efficient communication between the frontend and backend for retrieving application and customer data.

- **Microservices Architecture**

A modular backend architecture supports independent services and scalable application development.

- **Modern CRM Interface**

Provides mortgage agents with an intuitive interface for managing customers, applications, and deals.

25. Educator Community & Collaboration Platform



A moderated online community designed specifically for educators to connect, share knowledge, and collaborate through diverse forms of content.

The platform enables educators to publish posts, questions, polls, and long-form articles while supporting content scheduling, drafts, and personal content management. Members can interact through threaded discussions, replies, comments, and social sharing, while real-time notifications keep users informed about relevant community activity.

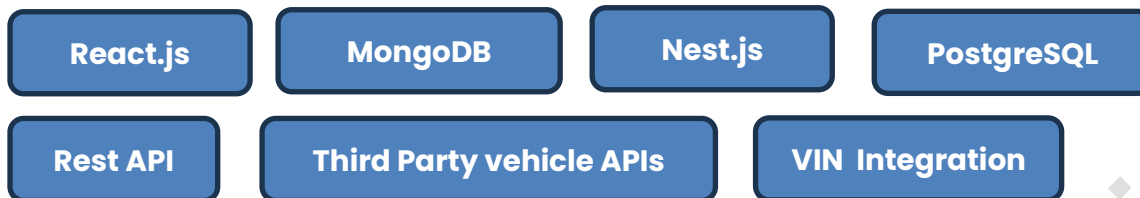
A dedicated moderation system helps administrators review reported content and manage discussions to maintain a safe and constructive environment.

Key Capabilities

- **Community Feed & Profiles**
Personalized community feed with content filters and detailed educator profiles.
- **Multiple Content Formats**
Create and share posts, questions, polls, and long-form articles.
- **Content Management**
Save drafts, schedule posts, and manage published content through a personal content library.
- **Interactive Discussions**
Support threaded comments, replies, and content sharing for meaningful community engagement.
- **Real-Time Notifications**
Activity feeds and notifications keep educators updated on interactions and community activity.
- **Content Moderation**

Moderation queues, reporting tools, and comment controls help maintain a safe community.

26. Auto Dealer Financing Platform



A digital financing platform designed to help automobile dealers access credit facilities for purchasing and expanding their vehicle inventory without requiring upfront capital.

The platform enables dealers to use approved credit lines to finance vehicle purchases and manage repayment with applicable interest. It provides a structured financing solution that supports inventory growth while simplifying vehicle-related information management.

Key Capabilities

- **Dealer Credit Management**
Enables dealers to access and manage credit facilities for vehicle purchases.
- **Vehicle Inventory Financing**
Supports vehicle purchases through credit-based financing without requiring full upfront payment.
- **VIN-Based Vehicle Lookup**
Integrates third-party APIs to retrieve vehicle information using the Vehicle Identification Number (VIN).
- **Financing Data Management**
PostgreSQL provides reliable storage and management of application and financing-related data.
- **Scalable Backend**
Nest.js is used to build structured and scalable backend services.
- **Modern Web Interface**
React.js provides a responsive and user-friendly frontend experience.

27. VR Training Management Platform



A multi-tenant SaaS platform designed to help organizations manage VR training programs, devices, courses, groups, and trainers through dedicated client portals.

Each client operates through a dedicated URL with isolated access to its own data. Client administrators can manage devices, courses, groups, and trainers, while trainers receive invitations and can be assigned to specific groups and courses. The platform also provides dedicated trainer dashboards and remote assistance capabilities.

Key Capabilities

- **Multi-Tenant Architecture**
Supports multiple clients through dedicated URLs while maintaining strict data isolation between organizations.
- **Client Administration**
Client administrators can manage devices, courses, groups, and trainers from a centralized dashboard.
- **Group & Resource Management**
Assign devices, courses, and trainers to specific groups while preventing a device from being assigned to multiple groups.
- **Trainer Management**
Invite trainers through email and assign them to relevant groups and courses.
- **Trainer Dashboard & Remote Assistance**
Provides trainers with dedicated access to manage their assigned activities and support users remotely.
- **Secure User Sessions**

JWT-based authentication manages secure user sessions and access.

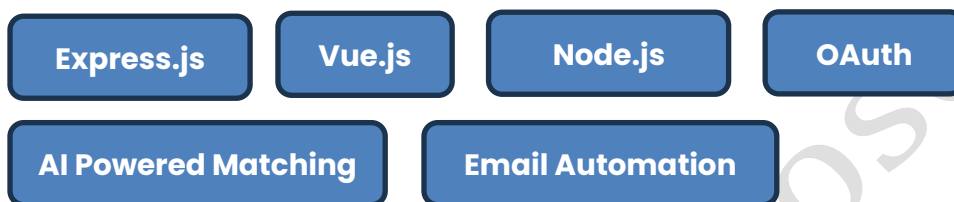
- **Cloud-Based API Architecture**

Backend APIs are deployed using AWS Lambda with API Gateway for frontend communication.

- **Cloud Storage & Database**

AWS RDS MySQL manages application data, while Amazon S3 stores images and related assets.

28. AI-Powered Career & Alumni Engagement Platform



An AI-driven platform designed to connect students, faculty, supporters, and alumni with relevant career guidance, mentorship, and networking opportunities.

The platform simplifies the process of seeking and providing advice by intelligently connecting people based on their needs and areas of expertise. Relevant requests for guidance are delivered directly to advisors through email, making professional engagement convenient without requiring users to adopt another application.

Automated communication workflows help maintain consistent engagement, while scheduled email notifications ensure that relevant opportunities and requests reach the right participants at the right time.

Key Capabilities

- **AI-Powered Opportunity Matching**

Connects students and other users with relevant advisors and career-support opportunities.

- **Advisor & Requester Networking**

Facilitates meaningful connections between people seeking guidance and those able to provide it.

- **Email-Based Engagement**

Delivers relevant advice requests and opportunities directly to users' email inboxes.

- **Automated Email Workflows**

Uses scheduled processes to trigger recurring and event-based communications.

- **User & Admin Applications**

Provides dedicated interfaces for users and administrators to manage platform activities.

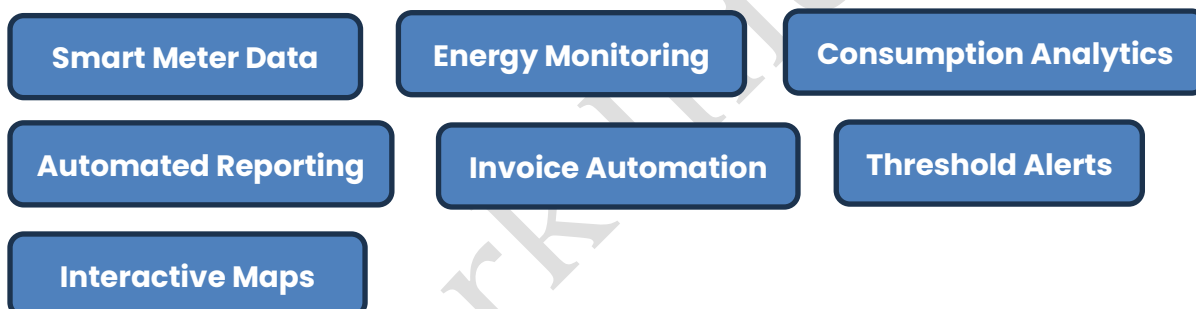
- **Secure Authentication**

OAuth-based authentication provides secure access to the platform.

- **Scalable Backend Architecture**

Express.js-based backend supports the platform's core application and communication workflows.

29. Commercial Energy Metering Platform



A commercial energy management platform that transforms smart-meter data into actionable consumption insights, automated reporting, billing, and threshold monitoring.

The platform enables organizations to centrally manage sites, physical meters, and virtual meters while tracking energy consumption across different time periods. Automated reporting and invoicing workflows help simplify operational processes, while configurable alerts provide timely visibility into unusual or threshold-based consumption.

Key Capabilities

- **Meter-Level Monitoring**

Track daily, monthly, and yearly energy consumption for individual meters.

- **Multi-Meter Analysis**

Compare consumption across multiple meters using configurable variables and reporting intervals.

- **Automated Reporting**

Create reusable report templates, schedule reports, and export data to Excel.

- **Tariff-Based Billing**

Generate invoice templates based on configured tariffs and automate recurring invoicing.

- **Consumption Alerts**

Configure threshold alerts with acknowledgement and historical tracking.

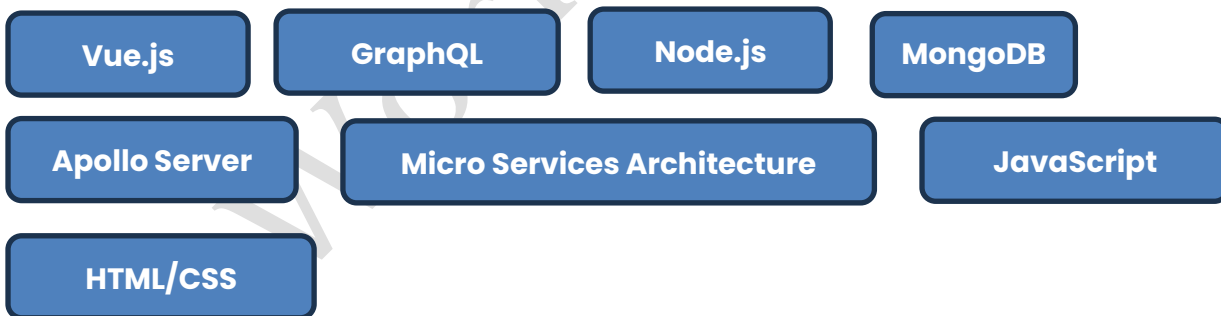
- **Site & Meter Management**

Manage locations, physical meters, and virtual meters from a centralized platform.

- **Interactive Map View**

Visualize sites and meters geographically through an integrated live map.

30. Mortgage Borrower Management Platform



A secure client-facing platform designed to simplify mortgage management by allowing borrowers to access their mortgage information, submit required documents, and track the progress of their applications through a centralized portal.

The platform provides a streamlined digital experience for managing mortgage-related activities while enabling efficient communication between borrowers and the underlying mortgage management system.

Key Capabilities

- **Mortgage Management**

Provides borrowers with centralized access to their mortgage information and related processes.

- **Digital Document Submission**

Enables users to upload and submit required mortgage documents through the portal.

- **Application Progress Tracking**

Allows borrowers to monitor the status and progress of their mortgage applications.

- **GraphQL Data Integration**

Uses GraphQL with Apollo Server for efficient communication between the frontend and backend.

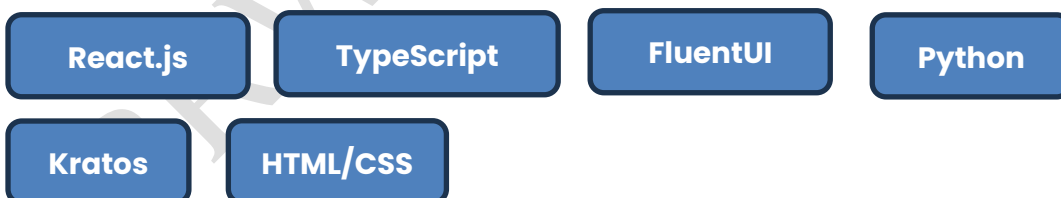
- **Microservices Architecture**

A modular backend architecture supports scalability and independent service management.

- **Modern Client Portal**

Vue.js provides a responsive and user-friendly interface for borrowers.

31. Data Quality Assessment & Reporting Platform



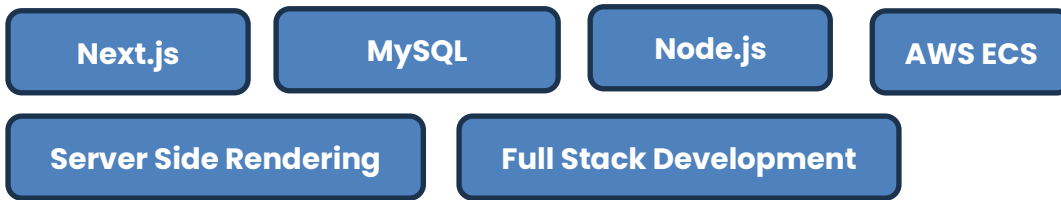
A data quality management platform designed to identify, analyze, and report data issues across multiple sources. The solution provides a centralized dashboard where users can review identified data issues and evaluate the overall quality of datasets across multiple quality dimensions.

Following data analysis, the platform calculates individual scores for each quality dimension and generates an overall quality score, helping teams quickly understand data health, identify problem areas, and prioritize improvements.

Key Capabilities

- **Data Quality Dashboard**
Centralized view of identified data issues, quality metrics, and analysis results.
- **Multi-Dimensional Quality Assessment**
Evaluates datasets across multiple quality dimensions and assigns individual scores.
- **Overall Quality Scoring**
Combines quality metrics to provide an overall assessment of dataset health.
- **Data Issue Reporting**
Presents analyzed issues in a structured format to support investigation and remediation.
- **Modern Frontend Architecture**
The application is being migrated from Svelte to React with TypeScript for improved maintainability and scalability.
- **Microsoft Fluent UI**
Uses Fluent UI components to provide a consistent and accessible user interface.
- **Secure Authentication & Sessions**
Kratos manages user authentication and session management.
- **Backend API Services**
Python and FastAPI power the backend APIs and data processing workflows.
- **Application Monitoring & Analytics**
Sentry provides error tracking, while Mixpanel captures product and user analytics.

32. Co-Living Rental Management Platform



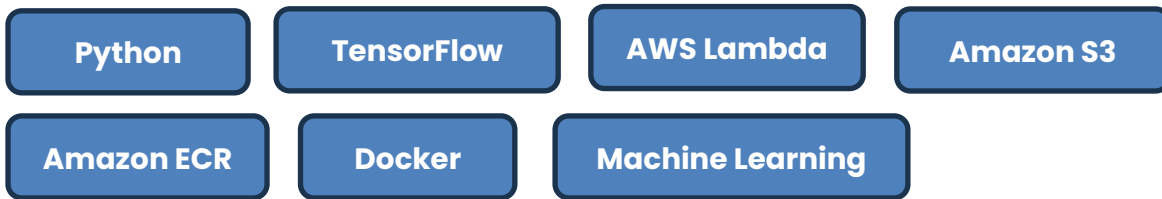
A full-stack co-living platform developed for a Toronto-based housing company offering furnished, ready-to-live rooms with shared living spaces for young professionals.

The platform provides digital experiences for both tenants and property renters, helping streamline the process of discovering, managing, and renting co-living spaces. The solution was developed end to end with a focus on performance, scalability, and a smooth user experience.

Key Capabilities

- **Co-Living Property Management**
Supports the management and presentation of furnished rooms and shared living spaces.
- **Tenant & Renter Experience**
Provides dedicated functionality for tenants and property renters throughout the rental journey.
- **Full-Stack Development**
Frontend and backend development handled using Next.js and Node.js.
- **Server-Side Rendering**
Uses server-side rendering to improve page performance and deliver faster user experiences.
- **Scalable Cloud Deployment**
Application infrastructure is deployed on AWS ECS clusters for reliable and scalable operation.
- **Responsive Web Platform**
Provides an accessible digital experience for users searching for and managing co-living accommodations.

33. AI-Powered Car Image Processing Platform



A proof-of-concept solution that uses machine learning to automatically isolate vehicles from images, remove their existing backgrounds, and replace them with customized backgrounds.

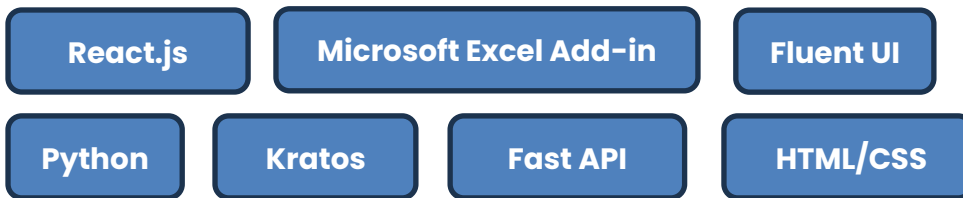
The solution is designed to transform automotive images into reusable visual assets by automating the image-processing workflow. When a source image is uploaded, the processing pipeline is triggered automatically, extracts the vehicle using AI-based image segmentation, and stores the resulting image for further use.

Key Capabilities

- **AI-Based Vehicle Extraction**
Uses machine learning to identify and isolate cars from their surrounding backgrounds.
- **Automated Background Removal**
Removes the original background while preserving the vehicle as the primary subject.
- **Custom Background Replacement**
Enables processed vehicle images to be placed against desired backgrounds.
- **Event-Driven Image Processing**
Automatically triggers image processing when a new source image is uploaded.
- **Serverless Processing Pipeline**
Uses AWS Lambda to execute image-processing workloads without managing dedicated servers.
- **Containerized ML Environment**
Python-based processing services are containerized and stored in Amazon ECR for deployment.
- **Source & Processed Image Storage**
Amazon S3 maintains separate locations for original and processed

images.

34. Excel-Based Data Quality Management Platform



A Microsoft Excel add-in designed to bring automated data quality analysis directly into the spreadsheet environment. The solution identifies data issues, highlights affected cells, and provides users with visibility into their progress as issues are reviewed and resolved.

By integrating data quality workflows directly within Excel, the platform enables users to identify and address data problems without switching between separate applications.

Key Capabilities

- **In-Excel Data Quality Analysis**
Run data quality checks directly within Microsoft Excel.
- **Cell-Level Issue Detection**
Automatically identifies problematic data and highlights the affected cells for easier review.
- **Issue Resolution Tracking**
Updates progress as users resolve identified data quality issues.
- **Modern Excel Add-In**
Built as a Microsoft Excel add-in with a React and TypeScript-based frontend.
- **Consistent UI Experience**
Uses Microsoft Fluent UI components for a familiar and structured interface.
- **Secure Authentication & Sessions**

Kratos manages authentication and user session handling.

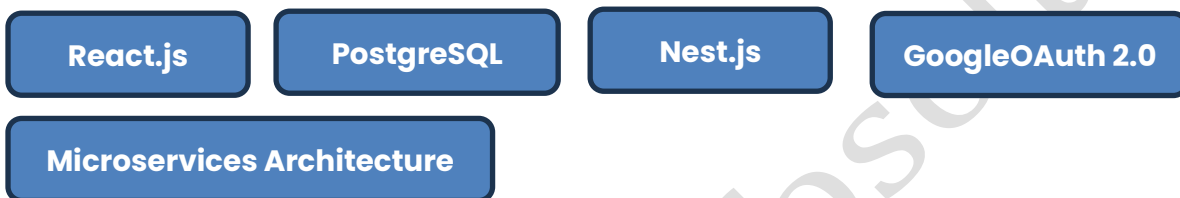
- **Backend API Services**

Python and FastAPI power the backend services supporting data quality operations.

- **Application Monitoring & Analytics**

Sentry provides error monitoring, while Mixpanel tracks application usage and analytics.

35. Microservices-Based Business Management Platform



A modern web application built using a microservices architecture, providing a scalable foundation for authentication and core management functionalities.

The platform separates key backend responsibilities into dedicated services, allowing the application to be developed and maintained in a modular manner. Users can securely access the platform through Google OAuth 2.0 authentication, while the React-based frontend provides an intuitive interface for interacting with the platform's management features.

Key Capabilities

- **Microservices Architecture**

Dedicated backend services provide modularity, scalability, and independent service management.

- **Authentication Service**

A dedicated authentication microservice manages secure user access and authentication workflows.

- **Management Service**

A separate management microservice handles core application and administrative functionality.

- **Google OAuth 2.0 Authentication**

Enables secure and convenient user sign-in using Google accounts.

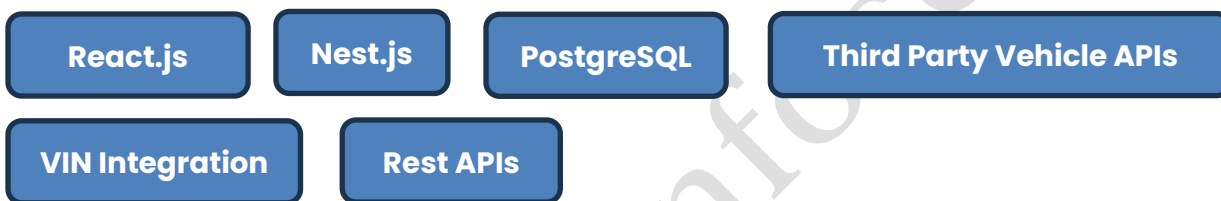
- **Modern Frontend**

React.js provides a responsive and user-friendly application interface.

- **Scalable Backend**

Nest.js powers the backend microservices and supports structured API development.

36. Auto Dealer Financing Platform



A digital financing platform designed for automobile dealers to access credit facilities for purchasing and expanding their vehicle inventory without requiring full upfront capital.

The platform supports credit-based vehicle purchases and repayment workflows, helping dealers secure funding while maintaining flexibility to grow their inventory. Vehicle information is retrieved through third-party services using VIN-based lookup.

Key Capabilities

- **Dealer Financing Management**

Provides credit facilities that support vehicle purchases and inventory expansion.

- **Vehicle Purchase Financing**

Enables dealers to acquire vehicles through approved credit lines and manage repayment obligations.

- **VIN-Based Vehicle Lookup**

Integrates third-party APIs to retrieve vehicle information using the Vehicle Identification Number.

- **Scalable Backend Services**

Nest.js is used to develop the backend and application APIs.

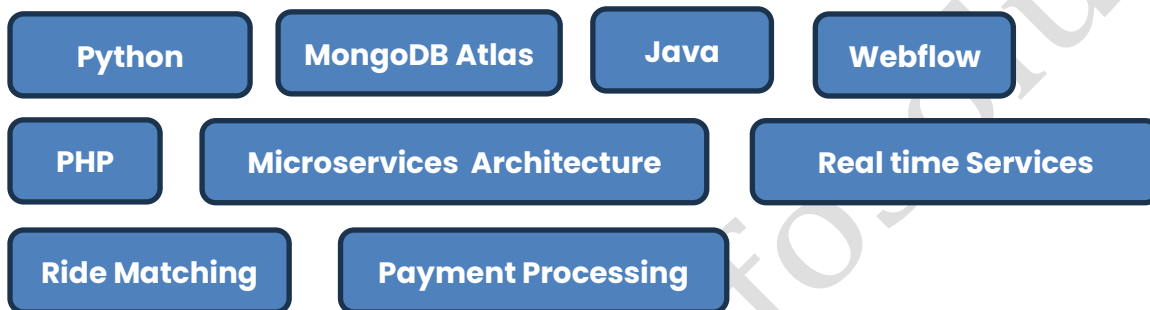
- **Modern Web Interface**

React.js provides the frontend experience for dealers and platform users.

- **Reliable Data Management**

PostgreSQL is used to store and manage application and financing-related information.

37. Ride-Hailing & Mobility Management Platform



A high-performance backend platform developed from the ground up to power rider and driver applications for a modern ride-hailing ecosystem.

The solution uses a microservices architecture to independently manage critical transportation workflows, including ride matching, dynamic pricing, trip lifecycle management, and payment processing. This modular approach enables individual services to scale independently while maintaining reliable communication across the platform.

Key Capabilities

- **Ride Matching Engine**

Matches riders with nearby available drivers in real time.

- **Dynamic Pricing Management**

Supports pricing workflows based on ride and trip requirements.

- **Trip Lifecycle Management**

Handles the complete journey from ride request and driver assignment through trip completion.

- **Payment & Transaction Processing**

Manages payment-related operations and transactional account data.

- **Independent Microservices**

Dedicated services for matching, pricing, trips, and payments allow flexible scaling and deployment.

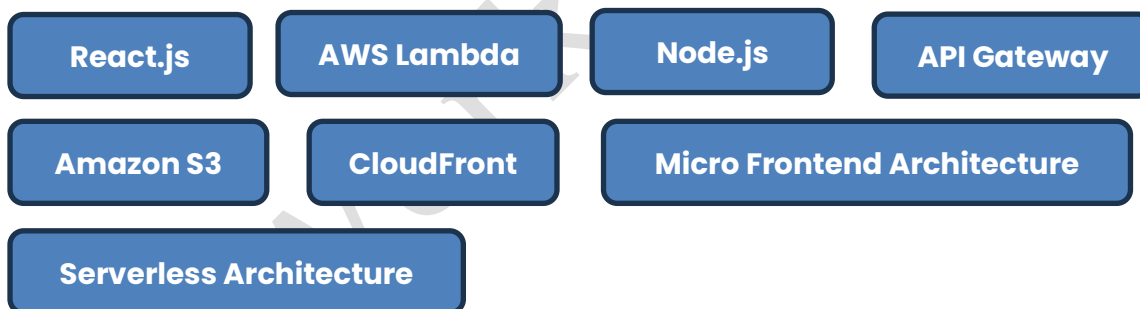
- **Real-Time Communication**

Supports responsive interactions between rider and driver applications.

- **Multi-Database Architecture**

MongoDB Atlas manages ride and trip information, while AWS Aurora PostgreSQL handles transactional data such as payments and accounts.

38. Application Access & Permission Management Platform



A centralized permission management platform designed to control application access, users, roles, groups, and permissions across a suite of interconnected applications.

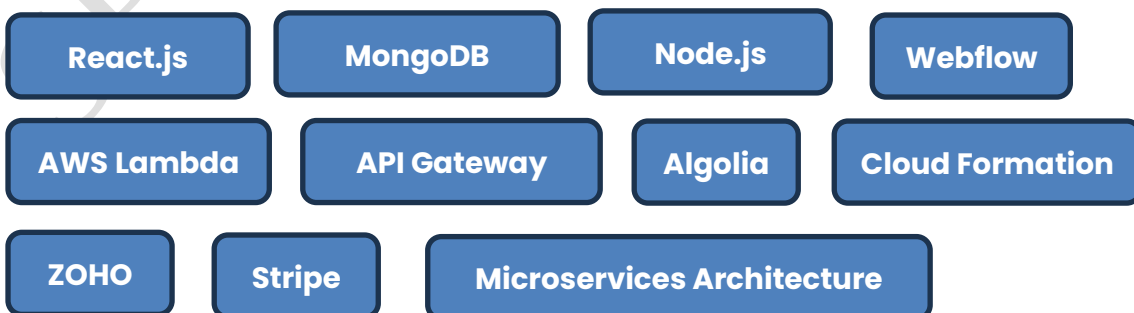
Built using a Micro Frontend architecture, the platform serves as the foundation for more than 15 independently developed frontend applications. It enables individual applications to manage their access controls through a unified system while maintaining flexibility and independent development across modules.

The entire solution follows a serverless architecture, providing a scalable and cost-efficient infrastructure for managing application access and permissions.

Key Capabilities

- **Centralized Permission Management**
Manage applications, users, roles, groups, and permissions from a single administration portal.
- **Role-Based Access Control**
Define and manage application access based on user roles and assigned permissions.
- **Micro Frontend Architecture**
Supports more than 15 independent frontend applications through a unified architecture.
- **Centralized Access Foundation**
Provides a common permission layer that can be integrated across multiple applications.
- **Serverless Infrastructure**
Built using AWS serverless services for scalability, flexibility, and reduced infrastructure management.
- **Application & User Administration**
Centralized management of application access and user authorization.
- **Independent Module Management**
Micro Frontend architecture enables individual modules to be developed, deployed, and maintained independently.

39. Education & University Program Search Platform



A modern education technology platform designed to help students explore university programs and access admission-related information across multiple countries.

The application was transformed from a conventional architecture into a scalable microservices-based platform. It enables users to search and discover programs from more than **3,000 universities across 6 countries**, while providing integrated services for search, admissions, payments, CRM, and content management.

Key Capabilities

- **University & Program Search**

Search and discover thousands of university programs across multiple countries.

- **Microservices Architecture**

Migrated the existing application into independently managed and scalable services.

- **Advanced Search**

Algolia provides fast and efficient search capabilities across university and program data.

- **Cloud Infrastructure**

AWS Lambda, API Gateway, CloudFront, S3, WAF, and Route 53 support a scalable and secure application environment.

- **Third-Party Integrations**

Integrated MongoDB, Zoho, Stripe, and Webflow to support data management, CRM, payments, and content operations.

- **Infrastructure as Code**

AWS infrastructure is managed using CloudFormation templates for consistent and repeatable deployments.

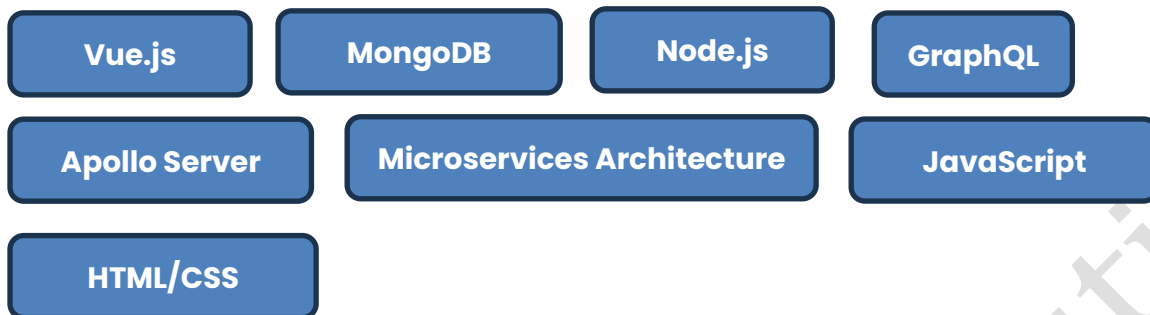
- **Modern Web Application**

React.js powers the frontend, while Node.js handles backend APIs and application services.

- **CI/CD Automation**

Bitbucket-based CI/CD workflows streamline application builds and deployments.

40. Mortgage Broker & Agent CRM Platform



A comprehensive CRM platform designed for mortgage brokers and agents to manage client relationships, streamline mortgage applications, and organize deal-related documentation from a centralized workspace.

The platform supports multiple mortgage workflows, including refinancing and mortgage switching or transfers. It enables agents to maintain client information, manage application processes, and organize the documentation required throughout the mortgage lifecycle.

Key Capabilities

- **Client Relationship Management**
Centralized management of customer profiles, interactions, and mortgage-related information.
- **Mortgage Application Management**
Streamlines application workflows and helps agents manage applications efficiently.
- **Multiple Mortgage Workflows**
Supports refinancing, switching, transferring, and other mortgage-related processes.
- **Deal & Document Management**
Organizes documentation and information associated with individual mortgage deals.
- **GraphQL-Based Data Access**
Uses GraphQL with Apollo Server for efficient communication

between the frontend and backend.

- **Microservices Architecture**

A modular backend structure supports scalability, maintainability, and independent service management.

- **User-Friendly Agent Interface**

Vue.js provides a responsive workspace for mortgage professionals to manage their daily activities.

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