

JUNGRO LEE

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WORK EXPERIENCE

General Motors

September 2020 – Present

GM Fleet (ex-BrightDrop) (May 2024 – Present) | <https://gmenvolveapp.com>

- Built a next-gen fleet management web app from Figma (UI/UX), Backstage (API specs), and engineering design docs; enabled vehicle onboarding and role-based entitlements, driving millions in revenue
- Delivered trip history and drive block with interactive mapping, integrating OnStar telematics to visualize daily and historical trip routes and events (e.g., driver distraction camera alerts, harsh braking, acceleration), with synchronized map and trip detail using Mapbox
- Designed and implemented geofencing for vehicle tracking, supporting multiple rules, toggleable layers, and real-time alerts
- Led frontend development of billing systems supporting multi-plan subscriptions, hardware purchases, discounts, and payment workflows
- Optimized performance with continuation tokens, RTK Query, and React Virtuoso, improving table load speed 50%+ and cutting API calls 75%+
- Built a custom CLI and AI workflow framework that turns Jira tickets and Figma context into implementation-ready PR workflows

MyBA (March 2023 – May 2024)

- Engineered a fleet management app with Next.js, React, Redux, custom hooks, MUI/PrimeReact, REST APIs, and Spring Boot; streamlined vehicle tracking, orders, and maintenance, boosting fleet management efficiency 50%+
- Led frontend for the billing feature and implemented key components (e.g., vehicle onboarding, reusable widgets), enhancing UI with TypeScript/Tailwind and reliability with comprehensive Jest tests
- Refined backend API endpoints with Java/Spring Boot, validated with Insomnia, and integrated services into frontend workflows
- Developed and delivered GM QuickPay in 1 week, a React payment gateway integrated with Zuora payment service, enabling millions of GM customers to make seamless payments and reducing invoice-to-payment cycle time

Global Brands Site (September 2020 – March 2023)

- Enhanced and maintained reusable AEM/Angular components for GM's global brand sites (e.g., Cadillac, Chevrolet, GMEnvolve), and improved backend reliability by increasing JUnit test coverage 0% to 21% and contributing to Java/Spring Boot service maintenance
- Authored and validated AEM content modules to support component testing and ensure correct rendering across multiple global brand sites
- Delivered ADA & WCAG-compliant navigation with JavaScript, improving accessibility across worldwide brand sites and saving \$30M+ in compliance costs while enriching user experience
- Built an exclusive TypeScript VIP preview widget for the \$300K Cadillac Celestiq ultra-luxury car, generating \$200M+ in future revenue

PERSONAL PROJECT

Strata | <https://strata.fyi>

October 2025 – Present

- Built a multi-tenant AI platform with workspace isolation, user-scoped and shared context, and document-based knowledge retrieval
- Developed an embeddable AI assistant for web apps with real-time, context-aware responses from structured knowledge
- Designed a human-in-the-loop support system with AI-assisted responses and automatic knowledge base updates, reducing repeated queries
- Built analytics to track user queries and interaction patterns, surfacing insights to improve knowledge coverage and system responses

Computer Vision Automation

September 2025

- Built a real-time vision system that detects traversable paths and plans movement using grid-based pathfinding, executing actions via Arduino

MIS 372T Full-Stack Web App Development

August 2024 – Present

- Co-developed full-stack curriculum with UT Austin MIS faculty (React, Node.js, PostgreSQL, auth)
- Delivered lectures and mentored students to build end-to-end apps with LLM/RAG integrations

GM BrightDrop AI Hackathon

March 2024

- Built an AI-powered Next.js app using GPT-4V API for image-based inventory analysis; implemented custom interpreter to handle API limitations

Portfolio Website | <https://jungrolee.com>

April 2023

- Designed and built a responsive personal website using Next.js, React, and TypeScript, showcasing projects and interactive UI work

EDUCATION

The University of Texas at Austin

Bachelor of Business Administration, Management Information Systems

May 2020

SKILL

Programming Languages: TypeScript, Java, Python, JavaScript, Kotlin, SQL, HTML/CSS

Frameworks: React, Next.js, Angular, Node.js, Spring Boot

Tools/Platforms: Git, GitHub, Azure DevOps (CI/CD), Docker, Adobe Experience Manager, Maven, LLMs

Databases: PostgreSQL, MongoDB, Azure, AWS, GCP

ADDITIONAL INFORMATION

Work Eligibility: U.S. Citizen, Eligible to work in the U.S. with no restrictions | **Languages:** Fluent in Korean, Working Knowledge in Spanish