

# JUNGRO LEE

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## WORK EXPERIENCE

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**General Motors** – *Software Engineer*; Austin, TX

September 2020 – Present

**GMEnvolv BrightDrop** (May 2024 – Present)

- Consolidated essential features from GMEnvolv MyBA into BrightDrop, contributing to an anticipated multi-million dollar revenue increase
- Restructured and deployed Universal Login, integrating SSO and overhauling CDI login structure; decreased login-related support tickets by 50%
- Created technical design documents and led the planning and development of Customer Support features

**BrightDrop AI Hackathon** (March 2024)

- Created an AI-driven web app in 1 week using GPT-4V API to analyze image inputs for inventory assessments, and pioneered a customized prompt and interpreter function to bypass GPT-4V's 1:1 image analysis limitation

**GMEnvolv MyBA (MyBusinessAccount)** (March 2023 – May 2024)

- Engineered a new cutting-edge Fleet management app using Next.js, React libraries, Redux, REST APIs, and Spring Boot; streamlined vehicle tracking, order, and maintenance, boosting fleet management efficiency by over 50%
- Led the development of the billing feature's Frontend, and enhanced variety of components like vehicle onboarding and reusable widgets, improving UI with TypeScript/Tailwind CSS, and enhancing reliability with comprehensive Jest unit tests
- Refined Backend API endpoints, conducted thorough validation with Insomnia, and integrated APIs into Frontend interfaces
- Developed and delivered GM Quickpay in 1 week, a payment gateway webapp, enabling millions of GM customers to make seamless payments, reducing invoice-to-payment time

**Global Brands Site** (September 2020 – March 2023)

- Worked extensively with AEM to enhance and customize components across multiple GM websites, increased backend JUnit test coverage by over 21%, and developed and maintained backend services using Java and Spring Boot
- Executed ADA & WCAG compliant navigation solutions, optimizing accessibility for GM's worldwide brand sites and achieving \$30.2 million in compliance cost savings, while enriching user experience across a wide range of demographics
- Designed and created an exclusive sneak peek access page widget for the \$300,000 Cadillac Celestiq ultra-luxury car for GM's VIP clients, leading to over \$200 million in future revenue

## PERSONAL PROJECT

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**MIS 372T Full-Stack Web App Development**

August 2024 - Present

- Collaborated with MIS professor at UT Austin (Ranked #4 Undergraduate MIS Program, U.S. News 2024) to design and launch a pilot course for Spring 2025, aimed to modernize the MIS 333K Web Application Development curriculum
- Contributed to detailed day-to-day planning and developed course materials and React project templates to align with current industry standards

**Portfolio Website**

April 2023 - Present

- Architected and launched a responsive website using Next.js, React, and TypeScript; utilized LLMs to produce functional widgets (GPT-integrated chatbot, weather app, and stock/crypto tracker), enhancing user engagement by 50%+

**Automated Stock Data Collection and Analysis**

April 2023

- Generated Python scripts for real-time stock analysis using Yahoo Finance API to track top daily movements and export volatility data to Excel

**McCombs MS Elective Course Registration System** (UT Austin) – MIS 374;

Spring 2020

- Created a new elective course registration system for UT Business MSITM Program using Knack, collaborating with UT faculty; accelerated registration processes by 200%, reduced errors by 90%, and benefitted over 1,000 graduate students, with the system still actively used today

## EDUCATION

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**The University of Texas at Austin**

Bachelor of Business Administration, Management Information System

## SKILL

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**Programming Languages:** JavaScript, TypeScript, Python, Java, SQL, HTML, CSS, SCSS, Tailwind CSS

**Frameworks & Libraries:** React, Material UI, PrimeReact, Redux, Next.js, Node.js, Spring Boot

**Tools & Platforms:** Adobe Experience Manager, Git, Azure DevOps (CI/CD pipelines), GitHub, REST APIs

**Databases:** Microsoft SQL Server, MongoDB, Azure Cosmos DB

## AWARD AND RECOGNITION

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- Code War (Monthly Code Challenge) Winner – *General Motors*

June 2022

- Top Designer (UI/UX Re-design Contest) 2<sup>nd</sup> place – *General Motors/Geek Week*

July 2021

## ADDITIONAL INFORMATION

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