

Jewoo (Jay) Lee

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Education

McGill University | Montreal, QC, Canada

Jan. 2020 – Dec. 2025

Bachelor of Computer Engineering, Faculty of Engineering | CGPA 3.80/4.0

- Relevant Coursework: Model-Based Programming, Software Engineering, Applied Machine Learning, Agile & Scrum, Data Structures and Algorithms, Operating Systems, Computer Vision, Signals and Systems, Computer Architecture, Microprocessors

Professional Experience

Part-Time Full-Stack Developer | Wholesale Express, Montreal, QC, Canada (Remote)

Aug. 2025 – Dec. 2025

Full-Stack Developer Intern | Wholesale Express, Montreal, QC, Canada (Remote)

May. 2025 – Aug. 2025

- Contributed to a full platform **v2 upgrade** by modernizing the frontend and **restructuring backend services** and **database organization**, improving **maintainability, scalability**, and future **feature development**
- Built and released a public vehicle information page with secure email link sharing using **Vue.js/Nuxt**, increasing platform accessibility and dealership engagement
- Optimized **GraphQL queries** and refactored **frontend components**, reducing **API latency** by ~10% and improving real-time update responsiveness
- Improved platform reliability and deployment quality by **optimizing API calls**, implementing **GraphQL-Firebase sync jobs**, and expanding **automated testing** and **CI/CD workflow**

Part-Time Full-Stack Developer | ContainerFoam, Montreal, QC, Canada (Remote)

Mar. 2025 – May. 2025

- Designed and implemented a **PostgreSQL database schema** and backend services with **Node.js**, ensuring scalable, query-efficient data management for cocktail recipes
- Integrated **Google Document AI** to parse unstructured cocktail book data into structured entries, automating ingestion and reducing manual processing
- Developed an AI-powered recommendation engine using **OpenRouter DeepSeek AI**, generating personalized drink suggestions in real time based on mood, allergies, and available ingredients

Credit Risk Analyst Intern | CI Guarantee, Seoul, Republic of Korea

Apr. 2024 – Jul. 2024

- Analyzed **financial statements, cash flow reports, and ownership data** to evaluate partner companies' credibility, generating **quantitative risk scores** with an internal credit assessment platform to support loan and insurance decisions for large-scale development projects
- Served as a **client-facing liaison**, resolving inquiries, explaining ranking outcomes, and guiding companies through the credit evaluation process while delivering clear, data-driven insights for both technical and non-technical stakeholders

Republic of Korea Marine Corps (ROKMC) | Hwaseong & Pohang, Republic of Korea

Sept. 2022 – Mar. 2024

- Led and trained a unit through multiple high-intensity exercises, advancing to Sergeant while strengthening **teamwork, discipline, and communication skills**, and developing **leadership and problem-solving abilities** under pressure
- Facilitated **communication between the U.S. Marine Corps and ROKMC** during joint operations (FreedomShield '23/'24, Ssang Yong '23) by providing **linguistic and cultural interpretation**, ensuring seamless coordination and mission success in complex, cross-cultural environments

Engineering Projects

MenuLens | McHacks12 Hackathon, Montreal, QC, Canada

Jan. 2025

- Developed an **AI-powered menu translation app** with **Flask (backend)** and **React + CSS (frontend)**, enabling **real-time** dish translations
- Integrated multiple **APIs** (Pexels, Google Search Console, Currency Freaks, OpenAI) to provide translations, currency conversion, and contextual dish information
- Implemented **OCR with image recognition** to extract text from photos of menus and automated translation workflows for a seamless user experience

Market Nest | CodeJam XIV Hackathon, Montreal, QC, Canada

Nov. 2024

- Built a **student-focused apartment finder web app** with **React + Tailwind CSS (frontend)** and **Firebase Realtime Database (backend)** for scalable, **real-time** property listings
- Integrated **third-party APIs**, including **Calendly** for booking visits and **Google Maps API** for location-based search and visualization
- Implemented **secure student authentication** to restrict access, preventing fraudulent accounts and ensuring platform trustworthiness

adStar | CodeJam XI Hackathon, Montreal, QC, Canada

Feb. 2022

McGill CodeJam XI Broadsign Challenge Winner

- Developed an **ad-impression prediction platform** using **machine learning models**, including **Decision Tree Regressor, Lasso Regressor, and Histogram Gradient Boosting** for precise forecasting
- Built and deployed a **Flask backend with REST APIs**, enabling **model integration** and **real-time** ad performance predictions
- Engineered a **scalable ML pipeline** to train, validate, and serve **models**, improving **prediction accuracy** and supporting **data-driven** ad placement decisions

Health and Toning Targeted Program (HTTP) | Montreal, QC, Canada

Jan. 2022 – Apr. 2022

- Developed a **cross-platform fitness tracking app** (iOS & Android) with a **Spring Boot + SQL backend** and **React frontend**, enabling personalized workout programming
- Collaborated in a **10-person Agile team**, applying **Scrum methodologies** to deliver iterative features and maintain high development velocity
- Implemented **secure user authentication and database integration**, ensuring reliable data persistence and smooth user experience across devices

Leadership and Extracurricular Activities

Production Manager | More (Injaz), Cairo, Egypt

Mar. 2018 – Dec. 2019

Company of the Year Award in Injaz Egypt Company Competition 2018

- Managed **end-to-end production** of multifunctional laptop cases, coordinating with multiple factories, overseeing **product design, quality assurance, and logistics** to ensure high quality and timely delivery
- Led a student-run company to win "Company of the Year" in the Injaz Egypt Competition 2018, demonstrating strong **leadership, entrepreneurship, and cross-functional teamwork** while driving successful product development

Honors and Awards

1st Place – Databricks AI Agent Hackathon Montreal

Oct. 2025

Broadsign Award – CodeJam XI

Nov. 2021

Languages and Technical Skills

Languages: English (fluent), Korean (native), Arabic (Intermediate)

Technical Skills: Java, Python, C++, C, JavaScript, TypeScript, SQL, HTML, CSS, React, Vue.js, Nuxt, Node.js, Flask, Spring Boot, Tailwind CSS, PostgreSQL, Firebase, Apollo GraphQL, OpenAI API, OCR/Image Recognition, Git, CI/CD Pipelines, Agile/Scrum, LTSpice, Numpy, Scikit Learn, UML diagram