

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

Marlet 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