Jaehong Lee (Jay)

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EDUCATION

Simon Fraser University

Burnaby, BC

Bachelor of Applied Science in Computer Engineering, Co-op (BASc)

Expected Aug. 2026

Email: jla688@sfu.ca

WORK EXPERIENCE

Samsung Electronics

Vancouver, BC

May 2024 - Present

- Full-Stack Engineer Co-op
- Utilized Google Cloud, and Next.js, to develop a centralized data hub for tracking emerging AI technologies.
- Designed RESTful APIs using Python with FastAPI, connecting with BigQuery to streamline data pipelining.
- Developed Samsung Knox cloud service frontend using TypeScript, impacting over 70 million devices globally.
- Implemented Micro Frontend architecture using Module Federation to enhance scalability and maintainability.
- Conducted Cypress end-to-end testing to ensure the reliability and performance achieving a 99.9% test pass rate.

Intersystem Controls, Inc.

Vancouver, BC

Sep. 2021 - Dec. 2021

- Frontend Developer Co-op
- Led hotel touch panel frontend development using HTML, CSS, JavaScript, React, successfully deployed. [Image]
- Integrated REST API with Postman, improving frontend performance through a 20% reduction in response time.
- \bullet Developed a configurable module, reducing manual input by 80%, and establishing scalable architecture.
- Ensured component modularization and robustness through comprehensive **Jest** unit testing.
- Collaborated with UX/UI designer and participated in interviews, showcasing strong communication and contribution.

Selected Projects

GrabPencil.com

Sep. 2023 - Jan. 2024

- Developed Node.js-based backend REST API to facilitate CRUD operations for tutoring job postings.
- Designed MongoDB database search feature with extensive filters, increasing tutor finding efficiency by 70%.
- Implemented stateless JWT-based authentication, ensuring data integrity and preventing tampering.
- Utilized **Socket.io** for chatting system, resulting in real-time communication and enhanced user engagement.
- Conducted backend API endpoint testing using **Jest** and **Supertest** for comprehensive validation and reliability.

Maze Game C Apr. 2023

- In a team of three, used Maven for Java game application development, enhancing project management efficiency.
- Employed **OOP** with UML class diagram, optimizing development and code organization.
- Collaborated on a remote repository using **Git** for efficient version control and team collaboration.
- Utilized Scrum for iterative development, achieving a 100% success rate in delivering products as planned.
- Employed JUnit for unit testing and conducted line and branch coverage testing to validate code effectiveness.

CERTIFICATES

Udemy Online Courses

• JavaScript: Understanding the Weird Parts 🗷

Dec. 2023

• The Complete Node.js Developer Course (3rd Edition)

Feb. 2023

• The Complete JavaScript Course 2024: From Zero to Expert!

May 2021

• Modern HTML & CSS From The Beginning (Including Sass) ♂

Sep. 2020

TECHNICAL SKILLS

- Languages: HTML, CSS, JavaScript, TypeScript, C, C++, Java, SQL, MATLAB, IATEX
- Frameworks and Libraries: Node.js, Express.js, React.js, React Native, Redux, Mongoose, Cypress, Jest, JUnit
- Technologies and Tools: Git, Bash, Unix, Linux, Heroku, Render, NoSQL, MongoDB