Jaehong Lee (Jay)

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EDUCATION

Simon Fraser University

Burnaby, BC

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

Sep. 2019 - Present

Email: jla688@sfu.ca

TECHNICAL SKILLS

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

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 and BigQuery reducing processing time by 25%.
- Developed Samsung Knox cloud service frontend using **TypeScript**, enhancing usability for **70 million** devices.
- Implemented Micro Frontend architecture using Module Federation, reducing deployment times by 30%.
- Conducted Cypress end-to-end testing to ensure the reliability and performance achieving a 99.9% test pass rate.

Intersystem Controls, Inc.

Vancouver, BC

Frontend Developer Co-op

Sep. 2021 - Dec. 2021

- Led hotel touch panel frontend development and successfully deployed using HTML, CSS, JavaScript, React.
- Integrated REST API with Postman, improving frontend performance through a 20% reduction in response time.
- \bullet Developed a configurable **JSON** module, reducing manual input by 80%, and establishing scalable architecture.
- Ensured component robustness through comprehensive **Jest** unit testing, achieving 95% test coverage.
- Worked with a UX/UI designer to create the design system, resulting in twice as many positive user feedback comments.

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 security and data integrity across multiple applications.
- Utilized Socket.io to develop a peer-to-peer instant messaging system, resulting in real-time communication.
- Conducted backend API endpoint testing using **Jest** and **Supertest**, preventing **10**+ critical issues before deployment.

Maze Game ♂ Apr. 2023

- Used Maven in a team of three for Java game application development, streamlining builds across the team.
- Employed **OOP** with UML class diagram, optimizing development and achieving **100%** code transparency.
- Led version control management on a GitHub repository using Git for efficient version control and team collaboration.
- Reinforced Scrum principles with weekly stand-ups and sprint reviews, ensuring 100% on-time product delivery.
- 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