Jaehong Lee (Jay)

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SKILLS

- **LANGUAGES:** JavaScript, Typescript, Python, Java, C, C++, HTML, CSS, SQL
- **FRAMEWORKS:** React.js, Node.js, Next.js, Express.js, FastAPI, React Native, Redux, Cypress, Jest, JUnit
- **TOOLS:** JWT, Goolge Cloud, MongoDB, NoSQL, Git, Bash, Unix, Linux, Heroku, Render

EXPERIENCE

SAMSUNG ELECTRONICS   Vancouver, BC
Full-Stack Engineer Co-op   May 2024 – Present

- Took ownership of creating a centralized data hub for tracking emerging AI technologies using **Python** and **Typescript**.
- Improved frontend performance by implementing **Next.js** for **server-side rendering**, making TTFB faster by **50%**.
- Utilized **Google Cloud BigQuery** with **SQL** to efficiently query and process over **1.5 million** data points.
- Designed **RESTful APIs** using **Python** with **FastAPI** resulting in a **30%** increase in response times.
- Conducted **Cypress** end-to-end testing with **TypeScript** to achieve a **99.9%** test pass rate to address edge cases.

INTERSYSTEM CONTROLS   Vancouver, BC
Frontend Developer Co-op   Sep. 2021 – Dec. 2021

- Captained a touch panel frontend development using **React**, successfully integrating the product to a commercial hotel.
- Integrated **RESTful APIs** using **Postman**, achieving a **98%** API call sucess rate and **doubling** positive user feedback.
- Developed a configurable **JSON** module that reduced manual input by **80%** and established a scalable architecture.
- Implemented **Redux** for state management, cutting state-related bugs by **40%** and enhancing application stability.
- Ensured component robustness by conducting comprehensive **Jest** unit testing, achieving **95%** test coverage.

PROJECTS

GRABPENCIL.COM 🔗   Sep. 2023 – Jan. 2024

- Built a full-stack web app with **JavaScript** and **Express.js** for students to post or find tutoring services.
- Developed **Node.js**-based backend **RESTful APIs** 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.

MAZE GAME 🔗   Apr. 2023

- Utilized **Maven** in a team of three for a **Java** game application development, streamlining builds across the team.
- Employed **OOP** principles with UML class diagrams, saving an average of **1 hour** in architecture communication time.
- 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.

EDUCATION

SIMON FRASER UNIVERSITY   Burnaby, BC
Bachelor of Applied Science in Computer Engineering, Co-op (BASc)   Expected Aug. 2026

CERTIFICATES

UDEMY

- Understanding TypeScript 🔗   Present
- 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