

Jaeyong Lee

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EDUCATION

University of Toronto (St. George) - BSc, Computer Science, Focus in AI

Sept 2022 - May 2027

- **Relevant Courses:** Data Structures & Analysis, Software Design (Java), Software Tools & Systems Programming (C), Computer Organization, Introduction to Databases (SQL), Introduction to Software Engineering

EXPERIENCE

PointClickCare

Software Engineer Intern

Jan 2025 - Present

Toronto, ON

- Built new features in **5** production backend services in **Java** with **Spring Boot**, enhancing patient care for **27,000+** facilities.
- Designed and implemented **12+** production-grade **REST API** endpoints for clinical features including secure messaging, patient management, and CSV exports, improving care workflows and medication adherence rates for **40%** of users.
- Monitored and diagnosed backend service health using **Jenkins**, **Grafana**, and **Kibana**, contributing to **CI/CD pipeline** stability and supporting bi-weekly deployments by identifying **10+** recurring errors and implementing long-term fixes.
- Maintained **~100%** testing coverage, writing unit, integration, and end-to-end tests with **JUnit**, **Mockito**, and **Cypress**.

Geotab

Software Developer Intern

May 2024 - Dec 2024

Toronto, ON

- Delivered key features and data dashboards processing telematics data from **4 million+** connected vehicles for the Intelligent Transportation Analytics platform using **TypeScript**, **React**, and **Redux**.
- Built a **reverse proxy server** in **Go** with encryption and a **RESTful** interface, streamlining secure API gateway interactions.
- Enhanced system performance and maintainability by migrating **6 microservices** from **Express.js** to **Go** and optimizing **DaaS API endpoints** with **Google BigQuery**, achieving a **25% improvement** in response times.
- Implemented server-side **BigQuery** job orchestration in **Go** with real-time monitoring via **WebSockets**, improving usability.

Intelligent Adaptive Interventions Lab

Research Software Developer

May 2023 - Mar 2024

Toronto, ON

- Developed and deployed generative AI software tools to **150+** students to investigate the applications of **LLMs** in education with A/B testing using **TypeScript**, **React**, **PostgreSQL**, and **Vercel**.
- Conducted extensive data analysis using **Python**, providing critical insights that informed research papers and posters.
- Built and enhanced **REST API** endpoints for researchers using **FastAPI** and **Express.js**, integrating asynchronous processing and writing efficient **SQL** queries, improving response times by **30%**.

University of Toronto, Department of Computer Science

Software Developer

May 2023 - Aug 2023

Toronto, ON

- Developed a course planning web app with **JavaScript** and **React**, streamlining degree planning for **31,000+** students.

PROJECTS

Caspr: Causal System Visualization & Analysis 📄 | *TypeScript, React, Next.js, Firebase, Three.js, Vercel*

- Developed and shipped a web application enabling interactive 3D exploration of large-scale causal systems as part of a 7-member team for UofT's Machine Learning Research Group, enhancing research capabilities for **50+** researchers.
- Built a robust data model in **Firestore** to facilitate **role-based access control** and efficiently query user and graph data.

EasyChat: Instant Messaging 📄 | *Typescript, React, Node.js, Express.js, MongoDB, Socket.IO*

- Independently developed a comprehensive instant messaging application featuring a **RESTful** backend and modern UI.
- Implemented secure **JWT** user authentication and enabled bidirectional client-server interaction with **WebSockets**.

ScanEats: AI-Powered Fruit Freshness Rating 📄 | *Python, React, Flask, TensorFlow*

- Built a full-stack **machine learning** app, training a **CNN** with **TensorFlow** to rate fruit freshness from a live webcam feed.

SKILLS & CERTIFICATES

- **Technical Skills:** Java, Python, Go (Golang), C, JavaScript, TypeScript, React, SQL, NoSQL, HTML/CSS, Tailwind CSS, Flask, Express.js, Spring Boot, Jest, PostgreSQL, MongoDB, Node.js, Postman, Redux, Git
- **Certificates:** Cloud Computing Foundations with Azure, GCP, and AWS (*Duke University, Coursera*) 📄