GARY LI

+1(416) 988-0768 \diamond Waterloo, ON

gary.li1@uwaterloo.ca \leftharpootnote https://www.linkedin.com/in/gary-li-dev \leftharpootnote garyli.dev

SKILLS

D2L

Languages Java, JavaScript, Typescript, C, Go Frontend React, Material-UI, MobX, Redux

Backend Spring Boot, Node.js, Express, OpenSearch, Kafka, PostgreSQL, Docker

EXPERIENCE

Software Developer Co-op

01/2023 - 04/2023

Toronto, ON

• Leveraged OpenSearch in Node.js to store dense vectors and perform ANN searches for semantic similarity.

- Engineered Large Language Model powered prototypes with React, MUI, Node.js and AWS Lambdas.
- Initiated code coverage tracking for Lambda Mocha tests using IstanbulJS, bringing coverage from 60 to 90%.
- Improved internal access control by implementing OAuth2 for a **React** SPA with **Express** backend.

Software Developer Student

05/2022 - 08/2022

Waterloo, ON

• Implemented Java Spring Boot CRUD APIs and Kafka event streaming for Docker microservices with Hibernate and PostgreSQL.

- Developed React UI for the BlackBerry endpoint console with Typescript, Material-UI and Redux-Saga.
- Reduced microservice memory usage by closing an iterator leak and profiling KStream operations, resulting in a 32% reduction per million handled Kafka messages.

Software Developer Student

09/2021 - 12/2021

BlackBerry

BlackBerry

Waterloo. ON

- Worked with a microservice architecture to implement performant APIs using Java Spring Boot, Hibernate and Kafka streams.
- Engineered a 10x React tree render speedup for existing code by integrating large list virtualization.

Software Engineering Intern MentumQR

01/2021 - 04/2021

Toronto, ON

- Designed a real-time WebSocket order status page and menu editor using **React**, **Typescript** and **Redux**.
- Cached expensive Go backend endpoint calls to S3, resulting in a 3.5X speedup in response time.
- Developed interactive Android kiosk screens with Typescript, React Native, React Query and Recoil.

OPEN-SOURCE CONTRIBUTIONS

- Linux GNOME projects Nautilus and Evince in C and GTK.
 - Reported and fixed multiple bugs and crashes using gdb, rr, AddressSanitizer and Valgrind.

PROJECTS

SemesterShare.com time table social platform

EquationSpace.com real-time collaborative graphing calculator

EDUCATION