GARY LI

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SKILLS

Languages JavaScript, Java, TypeScript, SQL, C, Go

Frontend React, React Native, MUI, MobX, Redux, Cypress

Backend Spring Boot, Node.js, AWS Lambda, Terraform, PostgreSQL, Hibernate, Docker, Express

EXPERIENCE

Software Developer Co-op D2L

01/2023 - 04/2023

Toronto, ON

- Developed full stack Large Language Model powered projects using **React**, **MUI** and **AWS Lambdas** with automated **Terraform** provisioning on **GitHub Actions**.
- Built OAuth2 compliant Node.js Lambdas for React frontend to achieve granular user access control.
- Implemented natural language search with serverless Express and OpenSearch word embeddings on AWS.
- Integrated IstanbulJS coverage reports and wrote Mocha tests, improving codebase coverage from 60 to 90%.

Software Developer Student BlackBerry

05/2022 - 08/2022

Waterloo, ON

- Implemented Spring Boot CRUD APIs with distributed Kafka event streaming for Docker microservices.
- Developed modular TypeScript React components backed by Cypress tests with MUI and Redux.
- Optimized Kafka Streams operations and closed leaks for a 32% memory savings per million Kafka messages.

Software Developer Student

09/2021 - 12/2021

Waterloo, ON

- Engineered a 10x React tree render speedup for existing code by integrating large list virtualization.
- Implemented performant Java Spring Boot API endpoints using Hibernate and Kafka Streams.
- Composed robust Mockito and JUnit microservice tests integrated with Docker Testcontainers.

Software Engineering Intern

01/2021 - 04/2021

Toronto, ON

MentumQR

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

OPEN-SOURCE CONTRIBUTIONS

• Bug & crash fixes for Linux desktop GNOME apps using C, GTK, GDB, Valgrind and AddressSanitizer.

PROJECTS

BlackBerry

RadioMap.ca serverless internet radio platform with TypeScript React and Node.js on AWS

EquationSpace.com real-time collaborative graphing calculator using Node.js and Firebase

USBMouse Compact Linux USB subsystem mouse driver using USB Request Blocks

EDUCATION