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

- 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

- 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

BlackBerry

- 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

MentumQR

01/2021 - 04/2021 Toronto, ON

01/2023 - 04/2023

05/2022 - 08/2022

09/2021 - 12/2021

Waterloo, ON

Waterloo, ON

Toronto, ON

- 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

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