

GARY LI

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SKILLS

Languages TypeScript, JavaScript, Java, Python, Ruby, SQL, C
Frontend React, Next.js, Material UI, Redux, RTK, Jest
Backend GraphQL, Spring Boot, Node.js, AWS Lambda, Ruby on Rails, Docker, PostgreSQL

EXPERIENCE

Software Engineer Intern 01/2024 - 04/2024
StackAdapt *Toronto, ON*

- Built **TypeScript React** UI integrated with **Redux** and **GraphQL RTK Query** for efficient data fetching.
- Developed robust **GraphQL** resolvers in **Ruby on Rails** backend with **Active Records** data model.
- Reduced Geolocation query time by **97%** through eager loading ORM associations and fixing N+1 query issues.
- Optimized frontend polling logic and integrated the **Oj** JSON library for a **42% reduction** in results load time.

Software Developer Co-op 01/2023 - 04/2023
D2L *Toronto, ON*

- Delivered full stack LLM-powered solutions using **React**, **MUI** and **AWS Node.js Lambdas** with automated **Terraform** provisioning through **GitHub Actions**.
- Designed a natural language search powered by **Express** and **AWS OpenSearch** using LLM embeddings.
- Improved **Node.js Lambda** test coverage from **60 to 90%** by integrating **IstanbulJS** coverage reports to identify untested code and writing **Mocha** unit tests.

Software Developer Student 05/2022 - 08/2022
BlackBerry *Waterloo, ON*

- Developed modular **TypeScript React** components with **MUI** and **Redux** backed by E2E **Cypress** tests.
- Profiled **Kafka Streams** processing and fixed memory leaks for a **32% memory savings** per million messages.

Software Developer Student 09/2021 - 12/2021
BlackBerry *Waterloo, ON*

- Achieved a **10x React** tree render speedup for existing code by integrating large list virtualization.
- Engineered scalable **Java Spring Boot** endpoints for **Docker** microservices and integrated **Kafka** event streaming for real-time data processing.

Software Engineering Intern 01/2021 - 04/2021
MentumQR *Toronto, ON*

- Designed real-time **WebSocket** status pages and interactive screens in **TypeScript React** and **Redux**.

PROJECTS

GNOME Projects Open source contributions to GJS, a **JavaScript** runtime using Firefox SpiderMonkey engine.

RadioMap.ca Serverless internet radio platform running **TypeScript React** and **Node.js** on **AWS**.

USBMouse Compact **Linux** USB subsystem mouse driver written in **C**.

EDUCATION

Candidate for BAsC in Honours Computer Engineering Co-op, University of Waterloo Expected 2025