GARY LI

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SKILLS

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

EXPERIENCE

Member   01/2025 - present
GNOME Foundation   *Toronto, ON*

- Contributed open source patches to GJS, a **JavaScript** runtime based on the Firefox SpiderMonkey engine.
- Collaborated on bug reports and patches to adjacent open source projects like Nautilus and GLib.

Software Engineer Intern   01/2024 - 04/2024, 09/2024 - 12/2024
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*

- Designed AI retrieval-augmented solutions using **React**, **MUI** and **AWS Node.js Lambdas** with automated **Terraform** provisioning through **GitHub Actions**.
- Built a natural language search powered by **Express** and **AWS OpenSearch** with 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   09/2021 - 12/2021, 05/2022 - 08/2022
BlackBerry   *Waterloo, ON*

- Developed modular **TypeScript React** components with **MUI** and **Redux** backed by E2E **Cypress** tests.
- 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.

PROJECTS

[RadioMap.ca](#) Serverless internet radio platform running **TypeScript React** and **Node.js** on **AWS**.

[SixWheels](#) Shared mobility data mapper supporting GBFS standard in **TypeScript** and **GTK**.

[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