

GARY LI

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SKILLS

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

EXPERIENCE

Software Engineer 05/2025 - present
StackAdapt *Toronto, ON*

- Developed responsive **TypeScript React** UI integrated with **Redux** and **GraphQL RTK Query**, delivering enhanced features and detailed results for ad campaign forecasting.
- Built scalable **GraphQL** schema with **Ruby on Rails** and robust **Active Records** for efficient data access.
- Eliminated bottlenecks and optimized **SQL** queries via execution plan analysis to scale with user demand.

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 full stack features in **TypeScript React** and **Ruby on Rails** to expand ad forecasting functionality.
- Reduced Geolocation query time by **97%** through eager loading ORM associations and fixing N+1 queries.

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

- Engineered AI retrieval-augmented solutions for integrated and accessible course content using **React**, **MUI** and **AWS Node.js Lambdas** backed by **Terraform** provisioning.
- Improved understanding of user queries with a natural language search using **AWS OpenSearch** embeddings.

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

BASc in Honours Computer Engineering Co-op with Distinction, University of Waterloo 2020 - 2025