

# Haozhe Li

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## EDUCATION

### University of Toronto

B.A.Sc in Computer Engineering + PEY Co-op

Toronto, ON, Canada

Sep. 2023 – Apr. 2028 (Expected)

**Relevant Coursework:** Algorithms & Data Structures, Computer Hardware, Operating Systems, Introduction to Databases, Computer Organization, Software Design & Communication, Communication Systems, Digital Systems

## TECHNICAL SKILLS

**Programming Languages:** TypeScript, JavaScript, Java, Python, C, C++, RISC-V Assembly

**Developer Tools:** Git, Bash, VS Code, IDEA, Cursor, Vim, Chrome DevTools, Makefile

**Frameworks:** Node.js, React, Spring Boot, Vite, Tailwind CSS, GTK, Electron Framework

**DevOps & Cloud:** Nginx, GitHub Actions, Docker, AWS

**Other Tools:** Figma, Microsoft Office, L<sup>A</sup>T<sub>E</sub>X, Google Workspace

## EXPERIENCE

### Full Stack Engineer (Contract)

Sep. 2025 – Present

Hangzhou MYF Technology Co., Ltd.

Remote

- Led requirements discovery and authored a comprehensive PRD; designed **Figma** wireframes and delivered a Node.js + JavaScript MVP upon client sign-off.
- Built and maintained full-stack tradeflow enterprise modules on top of a **Node.js** open-source core using **TypeScript**;
- Orchestrated cloud infrastructure on **AWS**, utilizing **Docker** to ensure high availability for the core trading platform.
- Implemented a CI/CD pipeline with **GitHub Actions** to automate testing, builds, and Docker image publishing.
- Strengthened security by fronting services with **Nginx** reverse proxy, enforcing compliant HTTPS for enterprise users.

### Frontend Developer (Intern)

May. 2025 – Aug. 2025

Hangzhou EagleCloud Security Technology Inc.

Hangzhou, Zhejiang, China

- Developed new front-end features for an **Electron**-based enterprise cybersecurity desktop application and implemented UI functions for an admin web console. Utilized **TypeScript**, **React**, **Ant Design**, within a 7-person front-end team.
- Utilized **Cursor** (AI IDE), optimized coding workflows by applying advanced prompt engineering methodologies.
- Worked within standardized development workflows, including **Gitflow branching** (resolving merges and conflicts across QA and pre-production), **GitHub Pull Requests** with assigned reviewers and feedback resolution, and **CI/CD integration** testing on Alibaba Cloud (Yunxiao) for build consistency.

## PROJECTS

### TradeFlow System (Open Source) | TypeScript, Node.js, SQLite, React

Jul. 2025 – Present

- Architected a full-stack trade management solution, featuring inventory and financial tracking plus sales analysis.
- Engineered a high-performance backend using **TypeScript**, **Node.js** and **Express**.
- Developed a responsive frontend with **React** and **Ant Design**, adopting a component-driven architecture to accelerate feature delivery and maintain code reusability.

### GIS Route Optimization Application – Course Project | C++, GTK, Git, A\*, Dijkstra

Jan. 2025 – Apr. 2025

- Developed a Geographic Information System (GIS) desktop application in **C++** with **GTK** on Mate Desktop as a course project in a 3-person team, implemented map rendering, geographical name search, shortest path and multi-stop path finding features.
- Leveraged **multithreading** to preprocess 4GB of raw coordinate data, converting it into structured point, line, and polygon formats for canvas rendering in under 50 seconds on a 16-core test machine.
- Implemented pathfinding algorithms including **A\*** for shortest path computation, and **Dijkstra**, **multi-start greedy**, and **simulated annealing** for multi-stop route optimization, achieving 90% of the technical evaluation score.
- Integrated real-time traffic visualization by using **TomTom API** data and **libcurl** HTTP module.