

Alex Li

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Education

University of Waterloo

2020 – 2025

Bachelor of Computer Science, 3.7 GPA

- Coursework: AI / ML, Distributed Systems, Computer Networks, OS, Database Systems, Software Architecture

Skills

Languages: Python, TypeScript, JavaScript, Go, C++, C, Kotlin, Java, Bash, SQL

Technologies: Node, Git, Linux, GCP, AWS, Terraform, Docker, NoSQL, RDBMS, GraphQL, MongoDB, Postgres, Next.js, Svelte

Certificates: AWS Certified Developer, AWS Certified Cloud Practitioner, Manage Kubernetes in Google Cloud

Employment

Full Stack Developer

Sep 2024 – Present

Quantified Health

Toronto, ON

- Developed a patient scheduling platform using **Next.js** and ShadCN, integrating OpenPhone and Resend for automated email/SMS notifications; reduced manual booking time by **30 hours/week** and decreased patient no-shows by **80%**.
- Integrated **Stripe** payment processing to streamline the appointment-to-checkout flow, generating over **\$200K** in revenue.
- Developed a **Python ETL pipeline** for patient data from **MongoDB**, Stripe, and Cal.com via **GraphQL**, specifically collecting and analyzing user **attribution** data to guide leadership in directing **effective ad campaigns**.

Product Developer

May 2023 – Sep 2023

Proceve

Grimsby, ON

- Built a Project Management App with **SvelteKit** and **Tailwind**, collaborating cross-functionally with the UI team on Figma.
- Enhanced **Gin API** throughput by using **Goroutines** for asynchronous I/O-bound tasks dealing with artifacts on **Postgres**.
- Optimized production **Docker** images via multi-stage builds for **AWS ECS** deployment.

Software Engineer Intern

Sep 2022 – Dec 2022

Super.com

Toronto, ON

- Engineered complete features for a headless e-commerce platform using **Next.js** and **BigCommerce's API**, received a **\$2000 scholarship** for exemplifying a company core value *Moving Fast with Intention*.
- Improved product page load performance with a hybrid architecture, combining **SSR** and **REST** for efficient static content delivery and **GraphQL** for dynamic data fetching.
- Leveraged **Datadog** for real-time **performance monitoring** and **Amplitude** for user behavior analysis and **A/B testing** of feature designs and layouts, boosting click-through rates by **15-20%**.

Projects

ApeironDev IDE (github, demo)

May 2025 – Jun 2025

- Architected a **cloud-native Web IDE** with **Agentic RAG code-assist** using **LangGraph**, leveraging **Terraform** to deploy a microservices backend on **GCP**, optimizing resource utilization and building robust systems to scale.
- Delivered secure, sandboxed code execution in lightweight **Docker** containers and ensured globally consistent state transactions in a **distributed system** using **Two-Phase-Commit** with Optimistic Concurrency Control.
- Prioritized application security (Zero Trust) with **JWT** authentication/authorization and optimized performance using cryptographic file hash verification and client API response caching with **TanStack Query**.

TalentMatch (AI Hackathon Winner) (github, demo)

Jun 2025

- Delivered a functional AI-enabled talent matching platform POC following an **AI-native** workflow with **Cursor**, custom project rules for model consistency, and **MCP** to manage **Supabase** assets using natural language.
- Built a 2-stage candidate **recommendation system** that compares job to user profile embeddings indexed using **Cohere Embed** and then applies **Cohere's Rerank** model to suggest top-N candidates to the recruiter.

A-Maze-ing (github, demo)

Dec 2023 – Feb 2024

- Developed a **3D maze game** with a public leaderboard using **Svelte**, SkeletonUI, and **Go**, applying **OOP** and **MVC**.