

# **Skills**

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

Technologies: AWS, GCP, Docker, Next.js, React Native, Svelte, Angular, GraphQL, MongoDB, Postgres, Node

Certificates: AWS Certified Developer, AWS Certified Cloud Practitioner

## **Education**

University of Waterloo 2020–2025

Bachelor of Computer Science

- o Coursework: Algorithms, Distributed Systems, Operating Systems, Database Systems, Machine Learning
- Award: President's Scholarship of Distinction

# **Employment**

### Full Stack Developer, Reimagine Health

Toronto, Sep 2024 - Present

Patient Scheduling Platform for modernmenopause.ca

- Automated notifications using an asynchronous task queue scheduler (Agenda.js with MongoDB) that runs cron jobs to send SMS and email notifications with Mailchimp and Resend.
- o Built a medical blog platform integrated with WordPress GraphQL API to serve articles via SSR with SEO.
- $_{\odot}$  Integrated Firebase and Stripe's checkout flow for seamless transactions and authentication, generating \$100K+ in revenue.
- Leveraged Next.js and React Native to deliver features for both web and mobile platforms.

#### Software Developer, Nuralogix

Toronto, Jan 2024 – Apr 2024

**UI** Design System

- o Designed and documented a UI Design System, standardizing components across core applications.
- O Developed a React component library using Storybook, Vite, and StyleX; published as npm packages.
- Achieved 80% test coverage on Unit and E2E tests (Vitest, Puppeteer) to improve code maintainability.

#### Software Developer, Proceve

Grimsby, May 2023 - Sep 2023

Project Management Application for proceve.com

- o Collaborated closely with UI/UX designers on Figma to deliver consistent views (i.e Kanban, List, Timeline) with SvelteKit.
- o Developed REST API endpoints on top of Go's Gin framework to provide robust hierarchical artifact management services.
- Contributed to optimizing Go struct designs for project artifacts, enabling better traceability with automated dependency tracking across requirements, tasks, and test cases.

### Software Engineering Intern, Super.com

Toronto, Sep 2022 - Dec 2022

E-Commerce Platform

- o Developed features for an E-commerce storefront using the Next.js framework with TypeScript, MUI, and BigCommerce API.
- Enhanced product page load times by 15–20% through a hybrid architecture, leveraging REST to generate static content and GraphQL to handle dynamic queries.
- Spearheaded E2E testing automation with WebdriverIO, following TDD practices to overhaul manual tests, reducing regression testing time by 70% and leveraging GraphQL to pull staging data for realistic test cases.

# **Projects**

### DebateModAl (GitHub, Demo):

- o Developed an Al-powered debate SaaS platform with real-time interactions, speech analysis, and feedback capabilities.
- Leveraged Livekit's SDK to produce a pipeline voice agent (Deepgram Nova-2 STT, OpenAI LLM, GCP Cloud TTS).
- o Integrated Firebase with Clerk to create secure a authentication flow (API endpoints and route validation with Clerk middleware, custom JWT token Firebase signin, and database rules for authenticated read and write access).

## A-Maze-ing (GitHub, Demo):

- o Built a 3D maze game where players can compete for points on a public leaderboard using Svelte, SkeletonUI, and Go.
- o Designed a PostgreSQL database schema using Entity-Relationship Diagrams (ERDs), modelling essential game requirements.

#### Network

- o Implemented a RDT protocol over UDP, mimicking TCP to ensure accurate data transmission across unreliable networks.
- o Configured network topologies on virtual Software Defined Network using Mininet's Python API and OpenFlow protocol.

#### **Operating System:**

 Developed core OS functionalities in OS161 using C, including process scheduling, concurrency (semaphores, locks), memory management, and file system operations (syscall into kernel).