

# William Qi

☎ +1 587 991 8666 | ✉ [williamqi.250@gmail.com](mailto:williamqi.250@gmail.com) | 🌐 [willqizza](https://willqizza.com) | 📄 [william-qi](https://william-qi.com) | 🔗 <https://willqi.dev/>

## Education

---

### University of Alberta

September 2021 – April 2025

Pursuing a Bachelor of Science in Computing Science with Specialization

## Skills

---

**Programming:** Java, JavaScript, TypeScript, Node.js, HTML/CSS, SQL, Python, PHP, R, C++, Redis, Bash

**Libraries:** React, Next.js, Vue.js, Express.js, Django, Flask, Svelte, Twilio, Javalin, JUnit5, Jest, Cypress

**Tools:** Docker, Kubernetes, Firebase, Maven, NPM, Git Version Control, n8n, Android Studio

## Experience

---

### Vanmok Leak Detection Technologies - Software Developer Intern

May 2023 – August 2023

- Created an internal website in **Python** using **Flask**, leveraging the **Active Directory** authentication protocol for secure access control to confidential documents and announcements
- Deployed and configured **RBAC** for **Kubernetes**, **Docker**, and multiple internal proprietary applications, optimizing the development workflow and deployment process
- Developed a custom plugin for internal statistical analysis within WordPress, leveraging **PHP** and the **WordPress API** to collect, analyze, and present data for informed decision-making

### Minecap Games - Lead Developer

January 2023 – June 2023

- Led a team of developers to deliver a polished game experience written in **Java**, shown to over 40,000 unique players
- Dramatically improved server software performance by utilizing **multithreading**, resulting in an increase of over 300% concurrent users
- Supervised project timelines, maintained backend system health, and performed comprehensive code reviews on pull requests, ensuring both ongoing service stability and future maintainability

### Relm.US - Full-Stack Developer

June 2022 – April 2023

- Implemented REST API routes in **Express.js** to support account authentication using **TypeScript & SQL** and developed the frontend login and registration screen using **Svelte**
- Integrated **workflow automation tool** support to allow third-party programs to directly interact with our service; allowing support for various business automation use cases
- Planned and developed unit integration tests in **Jest**, increasing code quality and reliability prior to release on production environments

## Projects

---

### [WillQi.dev](#)

- Independently configured and deployed a self-hosted **Kubernetes** cluster for running applications and managing databases, implementing automation for streamlined operations and data backups

### [QRHunter](#)

- Developed an Android app in **Java** to facilitate QR code scanning and storage using **Firebase**, and served as the project leader, guiding five other developers with extensive **unit testing**, code reviews, and standardized software practices

### [RenoWorld](#)

- Deployed multiple microservices using **Docker** to deliver a home renovation application for an MVP built using **Next.js**, **React**, **TypeScript**, **Django**, and **Python**.