

William Qi

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

Education

University of Alberta

September 2021 - Present

Pursuing a Bachelor of Science in Computing Science with Specialization

Skills

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

Libraries: React, Vue.js, Express.js, Discord.js, Svelte, Jest, Javalin, JUnit5, Flask, Twilio

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

Experience

Vanmok Leak Detection Technologies - Software Developer Intern

May 2023 – Present

- 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 multiple microservices on **Kubernetes** and **Docker**, optimizing the development and deployment workflow for internal proprietary applications
- 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
- Oversaw project timelines, allocating resources effectively, and fostered coordination between development, upper management, and operations teams

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

PizzaServer

- Led the development of customizable Minecraft server software, coded in **Java**, which fully integrated the Minecraft protocol. The implementation made extensive use of **multithreading** and underwent rigorous **unit testing** using **JUnit5**

ChatReport

- Wrote a **Java** program to interact with a **REST API** built using **Express.js**, **Redis**, and **SQL** to allow chat infractions in Minecraft to be uploaded to a website for further moderator review

Overdone

- Created a recipe web application and API using **Express.js**, **React**, and **Typescript** to allow users to search and share recipes with their friends and family