William Qi

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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, Terraform, Ansible, Firebase, Maven, NPM, Git Version Control, 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**.