

William Qi

<https://willqi.dev>

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Skills

Languages: C++, C#, Python, TypeScript, JavaScript, Java, SQL, PHP, R, Redis, Bash, HTML/CSS

Libraries & Frameworks: ASP.NET, React, Next.js, Django, Vue.js, Express.js, Svelte, Javalin, JUnit5, Jest, Cypress

Technologies: Kubernetes, Docker, Helm, Terraform, Ansible, Prometheus, RabbitMQ, Node.js, Firebase, Gradle, Git

Experience

University of Alberta

Undergraduate Teaching Assistant

September 2024 – Present

- Created and led multiple lab sessions for **CMPUT 404**, a course centered on **web applications and architecture**
- Conducted office hours to offer additional guidance and support, tutoring students to help them understand course material

Vanmok Leak Detection Technologies

Software Developer Intern

May 2024 – August 2024

- Developed a status website using **ASP.NET** with **MVVM** architecture to display company application uptime and ensure compliance with SLA
- Gained extensive experience with **C#** and **C++**, with a focus on **COM** and interprocess communication
- Built numerous email API subscription microservices written in **Python** and deployed using **Helm** and **Kubernetes**
- Configured a **Grafana** dashboard to monitor and track external API statuses, usage, and alerting for critical issues

Software Developer Intern

May 2023 – August 2023

- Developed 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

Minecap Games

Software 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

Relm.US

Full-Stack Developer

June 2022 – April 2023

- Implemented account authentication with email verification using **TypeScript**, **SQL**, and **Svelte**
- Integrated **workflow automation tool** support with **n8n** to allow third-party programs to directly interact with our service; allowing support for various business automation use cases

Projects

WillQi.dev ([Link](#))

Independently configured and created a self-hosted **Kubernetes** cluster for running applications deployed using **Terraform**.

The Deadly Bird ([Link](#))

Led a team of 6 developers to build a distributed social media application with **Django** and **React**, with support for connecting with other decentralized services, and personally implemented **Stripe** integration for paid subscriptions.

Education

University of Alberta

September 2021 – April 2025

Graduating with a Bachelor of Science in Computer Science with Specialization