

# William Qi

<https://willqi.dev>

Email: [williamqi.250@gmail.com](mailto:williamqi.250@gmail.com)

Mobile: +1 587 991 8666

Github: [WillQizza](#)

Linkedin: [william-qi](#)

## Skills

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**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

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### 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 various third-party business automation use cases
- Implemented features using **Test-Driven Development** through comprehensive unit and integration tests

## Projects

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### 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 API support for connecting with other decentralized services, and personally implemented **Stripe** integration for paid subscriptions.

## Education

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### University of Alberta

*September 2021 – April 2025*

Graduating with a Bachelor of Science in Computer Science with Specialization