William Qi
Software Developer

✉ williamqi.250@gmail.com
🔗 willqi.dev
in linkedin.com/william-qi
○ github.com/WillQizza

Experience

Vanmok Leak Detection Technologies

Software Developer Intern   May 2024 – August 2024

- Delivered an **ASP.NET** application with **C#** to track company service uptime and provide customers SLA compliance records.
- Developed scalable email subscription **microservices** in **Python**, using **Helm** and **Kubernetes,** containing a configurable chart with a **REST API** that distributes tasks to workers for email verification, sending, and bounce management.
- Created **automation scripts** that reduced ticketing maintenance tasks from an average of **40 minutes to 10 minutes** and implemented numerous triage automated workflows which standardized customer responses.

Minecap Games

Software Developer   January 2023 – June 2023

- Directed a team of developers to create a scalable MMORPG in **Java**, which saw over **40,000 unique players** in its lifetime.
- Optimized game server performance by rewriting performance-intensive systems to leverage **multithreading**, resulting in a **300% increase in concurrent player activity**.
- Regularly performed maintenance across multiple Linux server nodes, hosting both **Redis** and **MySQL** services.

Relm.US

Full-Stack Developer   June 2022 – April 2023

- Created REST API routes to support account authentication using **TypeScript**, **SQL**, and wrote frontend components in **Svelte**.
- Integrated **workflow automation** with custom in-house **n8n** nodes, streamlining **CI/CD pipelines** and enabling developers to utilize no-code solutions for seamless interactions with the site's production **REST API**.
- Wrote unit integration tests in **Jest**, catching multiple issues before they hit production environments affecting multiple clients.

Projects

RenoWorld | Link

Next.js application developed as an MVP home renovation e-commerce website, featuring **end-to-end testing** with **Cypress.**

Wispe | Link

React & **TypeScript** application built to help plan out activities between friends, with over **90% statement coverage** using **Jest**.

The Deadly Bird | Link

Social media network built using **Django** and **React**, with **Stripe** integration to allow for premium subscriptions on the platform.

Portfolio Site | Link

My portfolio website built using **Vue** and **TypeScript**, with unit testing using **Jest** and **Vitest**, and deployed using **Kubernetes**.

Technical Skills

Languages: JavaScript/TypeScript, C#, Python, Bash, SQL, C++, PostgreSQL, HTML/CSS, JSON
Libraries & Frameworks: ASP.NET, Vue, Node.js, React, Next.js, Svelte, Jest, Cypress, Django, MongoDB, Redis, JUnit5
DevOps & Infrastructure: Kubernetes, Docker, Helm, Terraform, Prometheus, Ansible, Git, Gradle, RabbitMQ

Education

University of Alberta   September 2021 – April 2025

Graduating with a Bachelor of Science in Computer Science with Specialization