

# Qian Qian

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## Education

### University of Waterloo

Bachelor of Software Engineering, Honours Software Engineering, Co-op

Waterloo, Ontario, Canada

Sep 2025 — May 2030

## Skills

- **Languages:** Java, Python, Shell, C, C++, Kotlin, Rust, Swift, Typst, LaTeX

- **Tech/Tools:** Git, GitHub Actions, Linux, NGINX, Docker, Ktor, Flask, Probot, SwiftUI, Quilt

## Experience

### Software Developer

Waterloo Rocketry

Sep 2025 — Present

Waterloo, Ontario, Canada

- Built Mission Control System infrastructure to enhance deployment efficiency and system reliability by implementing Docker containerization, Ansible configuration management, and Python-based functionalities.
- Mentored less experienced team members to improve the team's overall software development capabilities by teaching software development best practices, tools, and collaborative workflows.

### Teaching Assistant (Java), Data Structures and Object Oriented Programming

Jan 2025 — May 2025

Vanier College

Montreal, Quebec, Canada

- Supported 61 students to improve subject comprehension by clarifying course concepts and assignment requirements.
- Graded 6 assignments to evaluate student performance by providing timely and constructive feedback.

### Sub-Captain, Programming Competition Subteam

Sep 2024 — May 2025

Vanier Robotics Team

Montreal, Quebec, Canada

- Prepared the team by organizing and leading 10+ Python and algorithm-focused preparatory workshops.
- Achieved 1st place in Division 1 at CRC TakTik 2025 programming competition with the team.

## Projects

### QubeC - Rust, C++

Aug 2025 — Present

- Implemented a bytecode compiler and virtual machine for a C-like programming language.

### Typstify - Swift, SwiftUI, Rust

Jul 2024 — Present

- Developed a native Typst editor for iPadOS to enable professional document creation on iPads by leveraging SwiftUI with Rust backend integrated via swift-bridge, a library facilitating interoperability between Swift and Rust.
- Contributed to 3 upstream dependencies to strengthen both the app and the broader open-source ecosystem by submitting code patches and bug reports.

### Maintainer, ungoogled-chromium-macos

Nov 2023 — Present

- Delivered 100+ releases to 5000+ users to provide a privacy-focused browsing experience on macOS by tracking upstream updates and maintaining build scripts and patches.
- Reduced the CI build time by 40% to accelerate release cycles by optimizing GitHub Actions workflows.

### CalcLox - Java

Jan 2025 — May 2025

- Designed and implemented the interpreter of a custom scripting language based on Lox for a programmable calculator.

## Additional Information

- **Honour and Awards:** Winner of Hack the North 2025 QNX Software Challenge, Canadian Senior Mathematics Contest Distinction (2024), 2 x Canadian Computing Competition Distinction (2023, 2024)

- **Activities:** Programming Competition Problem Setter at CRC Robotics