

# Qian Qian

✉ [me@qubik.top](mailto:me@qubik.top) | 🐙 [Qubik65536](https://github.com/Qubik65536) | [in/qianq](https://www.linkedin.com/in/qianq) | 🌐 [qubik65536.top](https://qubik65536.top)

## Skills

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- **Languages:** Java, Python, C, Shell, Kotlin, Rust, Swift, Typst, LaTeX
- **Tech/Tools:** Git, GitHub Actions, Linux, NGINX, Docker, Ktor, Flask, Probot, SwiftUI, Quilt

## Experience

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### 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

Vanier College

Jan 2025 — May 2025

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 🐙

Vanier Robotics Team

Sep 2024 — May 2025

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.

### Tutor, Math and Science

Vanier College

Feb 2024 — Jul 2025

Montreal, Quebec, Canada

- Tutored 30+ students in Math, Physics, and Java-based Computer Science courses to improve academic performance by reinforcing core concepts and promoting critical thinking with practice problems tailored to individual needs.

## Projects

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### 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.

## Education

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### University of Waterloo

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

Waterloo, Ontario, Canada

2025 — 2030

## Additional Information

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- **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