

# Qian Qian

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## Education

**University of Waterloo** Waterloo, Ontario, Canada  
*Candidate of Bachelor of Software Engineering, Honours Software Engineering, Co-op* 2025 — 2030

**Vanier College** Montreal, Quebec, Canada  
*Diploma of College Studies, Computer Science & Mathematics* 2023 — 2025

## Skills

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

## Experience

**Software Developer**  Sep 2025 — Present  
Waterloo Rocketry *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.

**Tutor, Math and Science** Feb 2024 — Jul 2025  
Vanier College *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

**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.

## 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