

Michael Du | Developer

Waterloo – Ontario

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Languages/Tools

Languages: Python, Java, Kotlin, C, C++, Rust, Go, JS (TypeScript)

Frameworks: Vue.js

Tools: Jenkins, Firebase, L^AT_EX, Git, Linux

Notable Awards

Edwin Anderson National Scholarship: Value of \$18,000. 1 of approx. 15, for excellence in competitive mathematics

Mathematics Contests:

- Putnam Competition: 20 (unofficial, 2020);
- Canadian Math Olympiad Repechage Qualifier (Top 125 in Canada of approx. 9000);
- USA Junior Math Olympiad Qualifier (Top 230 in North America of approx. 50,000);
- USAJMO score: 5/42 (2018). Highest AIME score: 10 (2018 II). Highest AMC12 score: 123 (2020 12A)

Canadian Chemistry Olympiad - Silver Medal: Top 12 in Canada of approx. 600

Experience

Curvegrid Inc.

Software Engineering Intern

Tokyo, Japan
January 2022 – April 2022

Worked as full-stack developer on MultiBaas blockchain middleware software.

- Used **TypeScript** with **Firebase** to prototype web app
- Used **Vue.js** and **Go**

Johnson Controls International plc

Software Automation Developer (Co-op)

Vaughan, Canada
May 2021 – August 2021

Worked in agile DevOps team to maintain and improve CI/CD system for ≈100 developers.

- Implemented library features in **Groovy**, created/refactored pipelines in **Jenkinsfile**;
- Managed repositories on **AWS**, **GitHub**; maintained and upgraded build/test VMs (**Hyper-V**);
- Sanitized, refactored, transitioned legacy Perforce repositories to Github; refactored testing frameworks to remove hard-coded secrets

CoreFour Inc.

Quality Assurance Tester (Co-op)

Richmond Hill, Canada
September 2019 – January 2020

Performed client-side (browser, iOS, Android) QA testing for the Edsby LMS.

Selected Projects

ferric-gb: Faithful emulator of Nintendo Gameboy written in **Rust**. In progress.

Minesweeper: Implemented Minesweeper (Windows XP version) in Android using **Kotlin**.

Extracurriculars

UWaterloo CS '25 Server

Administrator

Online
2020 – Present

Moderate and administer online community of 2000 members

Model United Nations Club

President

Richmond Hill H.S.
2019 – 2020

Served as the lead of the five-person club executive team, increasing membership by 100% and leading club to successful competitions

SHAD Fellow: Memorial University, 2019

Education

University of Waterloo

Bachelor of Computer Science, 2B

Waterloo
2020–2025

Selected courses: Intro to Combinatorics (Advanced), Elementary Algorithm Design / Data Abstraction (Advanced), Calculus 1/2 (Advanced), Object-Oriented Software Development (Enriched)