JIMMY LIU

Motivated & Dedicated Student & Developer

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EDUCATION

University of Waterloo
Bachelor of Software Engineering

Sept. 2023 – April 2028

Secondary School
William Lyon Mackenzie Collegiate Institute

Sept. 2019 – June 2023   Toronto, ON

- Studied under the STEM and English enriched MaCS program.

EXPERIENCE

Innovation Software Developer
Royal Bank of Canada

July 2023 – August 2023   Toronto, ON

- Developed a tool to grade APIs on metrics such as performance and security to boost site reliability and encourage API improvement and maintainment.
- Integrated a full stack web application with Backstage, React.js, Golang, MongoDB, PostgreSQL, and Apigee into the RBC developer portal with 850+ developers and a catalog of 3600+ APIs.

July 2022 – August 2022   Toronto, ON

- Designed an internal developer rewards system into the Innersource Portal to promote open source contributions within RBC.
- Built a full stack web application with Angular 10, Python FastAPI, and Pingfederate authentication.

Frontend Project Lead
Project Metropolis

Feb 2022 – June 2023   Toronto, ON

- Constructed William Lyon Mackenzie C.I.'s official school website's client interface in React.js
- Harmonized with the backend and graphics design team to create attractive and user-friendly student schedules, announcements, and school maps.

Programming Club Vice President
Mackenzie Computer Programming Team

Oct. 2021 – June 2023   Toronto, ON

- Prepared and organized competitive programming and game development lessons for over 100 club members.
- Guided competitive programming enthusiasts to achieve outstanding results at the Canadian Computing Competition and USA Computing Olympiad.
- Hosted, judged, and delivered a workshop for a province-wide hackathon for high school students across Ontario.

PROJECTS

Wireguard VPN Wizard
github.com/ji-mmyliu/wg-vpn-onboarder

July 2023 – Ongoing

- User-friendly command line tool that generates a complete Virtual Private Network using a hub-and-spoke model and Wireguard tunneling.

I Do With Liu
idowithliu.com

Sept. 2022 – Ongoing

- Contemporary wedding website complete with secure RSVP, auto email sending, and registry claiming.

Sign Language Anki Deck Generator
github.com/ji-mmyliu/asl-anki-generator

July 2023 – Ongoing

- Quickly generates a large deck of Anki flashcards to help people learn and review American Sign Language.

Discord Bot Online Judge
dboj.jimmyliu.dev

March 2021 – Nov. 2022

- An open competitive programming online judge platform hosting 9 contests, 16 programming languages, and over 60 problems.
- Served over 50 participants and contest organizers.

AWARDS

Canadian Computing Competition
Honour Roll Recipient

Feb. 2022

picoCTF Capture the Flag Contest
Third Place in Canada

May 2022

TECHNICAL KNOWLEDGE

Python   Java   C/C++
Javascript, Typescript   React.js, Angular
HTML, CSS   Linux   Go

LANGUAGES

English
Mandarin
American Sign Language
French