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
Senior Division 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 · Go · Linux · Docker · Kubernetes

LANGUAGES

English
Mandarin
American Sign Language
French