

# JIMMY LIU

## Motivated & Dedicated Student & Developer

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🔗 [ji-mmyliu](https://github.com/ji-mmyliu)

📍 Toronto, ON

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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](https://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.

Screentime Showdown

🌐 [devpost.com/software/screentime-showdown](https://devpost.com/software/screentime-showdown)

📅 October 2023 – Ongoing

- A friendly competition site that helps people overcome social media addiction by turning it into a fun challenge with your friends, with prize incentives!

Sign Language Anki Deck Generator

🌐 [github.com/ji-mmyliu/asl-anki-generator](https://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 vocabulary.

Discord Bot Online Judge

🌐 [dboy.jimmyliu.dev](https://dboy.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

