JIMMY LIU

Motivated & Dedicated Student & Developer

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EXPERIENCE

Full Stack 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 maintenance across all RBC web frameworks.
- Integrated a full stack web application with the Backstage framework and React.js for frontend, a Golang backend server, MongoDB, and PostgreSQL databases, and Apigee API management into the RBC developer portal with 850+ developers and a catalog of 3600+ APIs.
- Crafted strong unit test suites using **Jest** and **Golang** testing libraries.
- Engaged with Agile methodologies and Devops frameworks such as Jenkins.

July 2022 - August 2022

▼ Toronto, ON

- Designed an internal developer rewards system into the RBC Innersource Portal to improve developer productivity and promote open source contributions and collaboration within RBC.
- Built a full stack web application with an Angular.js frontend, Python FastAPI backend, and PostgreSQL database.

Lead Frontend Developer Project Metropolis

🛱 Feb 2022 - June 2023

Toronto, ON

- Constructed the official school website's client interface in React.js.
- Collaborated with the backend and graphics design team to create student schedules, announcements, and school maps to organize and centralize student resources.

Competitive Programming Club Vice President High School Computer Programming Team

Öct. 2021 - June 2023

■ Toronto, ON

- Prepared and delivered competitive programming and game development lessons for over 150 club members.
- Hosted, judged, and delivered a workshop for a province-wide hackathon for high school students across Ontario.

TECHNICAL KNOWLEDGE



EDUCATION

University of Waterloo
Bachelor of Software Engineering Candidate

📋 Sept. 2023 - April 2028

PROJECTS

Discord Bot Online Judge

dboj.jimmyliu.dev

March 2021 - Ongoing

- An open-source public competitive programming online judge platform hosting 10 contests, 16 programming languages, over 60 problems, and over 100 users.
- Developed a Discord Application using Python, MongoDB, gRPC, and an additional Flask web frontend.

Screentime Showdown

devpost.com/software/screentime-showdown

October 2023

- A group competition site that helps people overcome social media addiction
- Made with **React.js**, **Express.js**, and Meta's Instagram API.
- Won Hack the Valley 2023's Best Financial Hack Award.

Laser Guitar

https://git.uwaterloo.ca/the-guitar-heros

Sept 2023 - Ongoing

 A compact electric guitar with lasers for strings.
 Built using Python, Raspberry Pi, and a Tensorflow Keras machine learning model for chord fingering detection.

Wireguard VPN Wizard

github.com/ji-mmyliu/wg-vpn-onboarder

July 2023 - Ongoing

 Interface written in Golang that generates and manages your own Virtual Private Network using Wireguard.

AWARDS

Canadian Computing Competition
Senior Division Honour Roll (95th percentile)

picoCTF Capture the Flag Contest Third Place in Canada

LANGUAGES

English Mandarin American Sign Language French

