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.
- Integrated a full stack web application with the **Backstage** framework, **React.js**, **Golang**, **MongoDB**, **PostgreSQL**, and **Apigee** into the RBC developer portal with 850+ developers and a catalog of 3600+ APIs.
- Crafted strong unit tests 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 Innersource Portal to promote open source contributions within RBC.
- Built a full stack web application with **Angular.js** and **Python FastAPI**.

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.

Programming Club Vice President
High School Computer Programming Team

📅 Oct. 2021 – June 2023   ⚲ Toronto, ON

- Prepared and delivered competitive programming and game development lessons for over **150** 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.

TECHNICAL KNOWLEDGE

Python · Java · C, C++ · Javascript · Typescript · Node.js · React.js · Angular.js · Flask · Django · Jinja · SQL · Tensorflow · HTML · CSS · Golang · NGINX · Linux · Git · Vim · Jira · Github · Docker · Kubernetes

EDUCATION

University of Waterloo
Bachelor of Software Engineering

📅 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, and over 60 problems.
- Developed a Discord Application using **Python**, **MongoDB**, **gRPC**, and an additional **Flask** web frontend.
- Organized large contests for more than 70 users.

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 **Tensorflow Keras** 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