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

📅 Oct. 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

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

EDUCATION

University of Waterloo
Bachelor of Software Engineering Candidate (3.95 GPA)

📅 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://github.com/ji-mmyliu/laser-guitar**

📅 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.

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 vocabulary. Made with **Python** and **FastAPI**.

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