# JIMMY LIU

## Motivated & Dedicated Student & Developer

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## EXPERIENCE

### Full Stack Software Developer Intern  Royal Bank of Canada  📅 July 2023 – August 2023
- **Technologies used**: React.js, Golang, MongoDB, PostgreSQL, Apigee, Jest, Jenkins, Backstage, Node.js
- Developed a platform to evaluate **3600+** APIs within RBC to boost and maintain performance, security, and **site reliability**.
- Encouraged and aided **850+** developers in improving the quality of their internal APIs.

📅 July 2022 – August 2022
- **Technologies used**: Angular.js, Python, FastAPI, PostgreSQL
- Engineered RBC's internal developer rewards system, aimed at elevating team productivity and enhancing problem-solving efficiency company-wide

### Lead Frontend Developer  Project Metropolis  📅 February 2022 – June 2023
- Revitalized the user interface of an official school website using **React.js** and consolidated essential student resources
- Enhanced site functionality and aesthetic appeal. Worked closely with both backend developers and graphic designers to seamlessly integrate student schedules, announcements, and school maps.

### Full Stack Web Developer  Freelance  📅 September 2022 – October 2023
- Designed and built a custom wedding website serving **130+** users.
- Managed RSVP forms, automated email sending, and registry checklists using **React.js** and **Django**.

### Competitive Programming Club Vice President  📅 October 2021 – June 2023
- Prepared and delivered competitive programming and game development lessons for over **150** club members.
- Hosted and judged a province-wide hackathon for high school students across Ontario.

## TECHNICAL KNOWLEDGE

- Programming Languages: Python, Java, C, C++, Golang, Javascript, Typescript, Node.js
- Web Frameworks: HTML, CSS, React.js, Angular.js, Express.js, Flask, FastAPI, Django, Jinja, NGINX, Caddy
- Other Technologies: Tensorflow, Linux, Git, Github, Vim, Jira, Docker, Kubernetes, Jenkins

## PROJECTS

### Screentime Showdown  🌐 devpost.com/software/screentime-showdown  📅 October 2023
- Won Hack the Valley 2023's Best Financial Hack Award.
- A group competition site that helps people overcome social media addiction
- Made with **React.js**, **Express.js**, and Meta's Instagram API.

### Discord Bot Online Judge  🌐 dboj.jimmyliu.dev  📅 March 2021 – Present
- An open-source public competitive programming online judge platform hosting **10** contests, **16** programming languages, over **60** challenges, and over **100** users.
- Developed a Discord Application using **Python**, **MongoDB**, **gRPC**, and an additional **Flask** web frontend.

### Laser Guitar  🌐 https://github.com/ji-mmyliu/laser-guitar  📅 September 2023 – Present
- 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 – Present
- Developed an interface in **Golang** that generates and manages personalized Virtual Private Networks (VPNs) utilizing **Wireguard** technology

## AWARDS

### Carnegie Mellon University picoCTF Capture the Flag Contest
**Third Place in Canada**

### Canadian Computing Competition
**Senior Division Honour Roll (95$^{th}$ percentile)**

## EDUCATION

### University of Waterloo
**Bachelor of Software Engineering Candidate (3.95 GPA)**  📅 September 2023 – April 2028