## JIMMY LIU

**Motivated & Dedicated Student & Developer** @ jimmy.liu@uwaterloo.ca 🕝 ji-mmyliu # jimmyliu.dev in jimmy-liu-8173b4232 **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 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** 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. 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. September 2023 - Present A compact electric guitar with lasers for strings. Built using Python, Raspberry Pi, and a Tensorflow Keras machine learning model

• Developed an interface in Golang that generates and manages personalized Virtual Private Networks (VPNs) utilizing Wireguard

July 2023 - Present

## **AWARDS**

technology

Carnegie Mellon University picoCTF Capture the Flag Contest

Wireguard VPN Wizard ## github.com/ji-mmyliu/wg-vpn-onboarder

Third Place in Canada

for chord fingering detection.

Canadian Computing Competition Senior Division Honour Roll (95<sup>th</sup> percentile)

## **EDUCATION**

University of Waterloo

Bachelor of Software Engineering Candidate (3.95 GPA) 📋 September 2023 - April 2028