Lawrence Liang

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Driven and dedicated developer ready to utilize my skills wherever they're needed, and eager to learn new ones.

SKILL

Programming languages: Python, Java, C#, C++, TypeScript, JavaScript

Computer software/ frameworks: React/Next, Angular, Flask, .NET development, HTML, CSS, TailwindCSS, Arduino, MySQL, SQLite, Xamarin, Java Springboot, SQL, JUnit

Other: Networking, Security, AI, Machine Learning, AWS, Jira, GitHub, microservices, Microsoft Azure, SCRUM, Communication, Leadership, UML, Unit Testing, Quality Assurance

Languages: English (Advanced), French (Advanced), Mandarin/Cantonese (Conversant)s

PROJECT

Wonda Cabinetry Website
- An interactive website to feature projects, catalogs, and contact information for the company.
- Built with NextTS, TailwindCSS, hosted on Vercel.
- Created interactive 3D catalog items rendered using ThreeJS.

Champlain Pet Clinic Project – Full Stack
- Designed and implemented a web application for managing pets and clients using a microservice architecture.
- Configured microservice routing through an API gateway and developed comprehensive unit tests, while following a SCRUM methodology.
- Developed with Angular, Java Spring Boot and MySQL.

IOT Raspberry Pi Temperature & Humidity Sensor System
- Using a DHT-11 sensor connected to a Raspberry Pi and uploaded to a cloud database.
- Xamarin C# mobile app to display the data.
- Python Flask API.

PROFESSIONAL EXPERIENCE

CAE, Montréal QC   **Jan 2023 – Apr 2023**
Software Developer Intern – Virtualization Team

- Developed a tool/API in C++ to collect and analyze network switch data via SNMP and SSH connections through different branded devices.
- Generated and validated configuration files used to validate switch compliancy.
- Created locally deployed tools to visualize and analyze switch data using HTML, CSS, DyGraph and JavaScript.

P4Labs, Montréal QC   **Mar 2021 – May 2021**
Software Developer Intern

- Developed a curriculum of Arduino projects using C++ and Arduino library to help teenagers learn robotics.
- Created web pages with Vue.js and markdown files to dynamically display the projects on the website.

Cadets Canada, Bagotville QC   **Jun 2019 – Aug 2019**
Pleasure Craft and Whaler Instructor

- Ensuring the security and day-to-day well-being of the cadets under my supervision.
- Teaching to properly sail and maintain various types of boats.
- Teaching maritime navigation and survival techniques.

EDUCATION

École de Technologie Supérieure (Université du Québec) , Montréal   **2022 - Present**

Bachelor of Engineering, Software Engineering

Champlain College St-Lambert , Montréal   **2019 - 2022**

DEC Diploma of College Studies, Computer Science Technology

Lucille-Teasdale International School , Brossard   **2015 - 2019**

High School diploma and IB diploma

CERTIFICATION

TestOut PC Pro Certification, TestOut Corporation
- Confident in performing diagnostics, troubleshoots and repairs of software and hardware on a computer.

AWARD

3rd Place – McGill Mchacks10 Hackathon
Created an app to give you nutritional facts about your food through an image.

Best Beginner Project – McGill CodeJam12 Hackathon
Created a smart road trip planner to determine the best rest stops to take for travelers.

Honours Roll – Champlain College St-Lambert
Students above a certain general average for multiple semesters.

VOLUNTEERING

Seamanship Instructor, Cadets Canada Program
- Ensuring the security of the cadets under my supervision
- Teaching and evaluating seamanship related subjects (morse code, semaphore, nautical navigation, knots, etc.)