Simon Wu

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EDUCATION

McGill University   2023-...
B.S. Computer Science   *Current GPA: 3.94/4.0*

Champlain College St-Lambert   2019-2021
DEC Health Science

COURSEWORK

Relevant Courses: Object-Oriented Programming, Data Structures & Algorithms, Software Design, Statistical Computing, Software Systems, Operating Systems, Programming Languages & Paradigms,

EXPERIENCE

Full-Stack Developer Intern | *Ensemble Technologies Inc.*   May 2023 – Sept. 2023

- Developed a full-stack web application/mobile app using **Ionic/Angular**, **Node**, **Express**, and **MongoDB** for third-party car-inspectors to manage their inspections
- Conducted integration & end-to-end testing with **Playwright** and **Jest** to ensure the application's functionality
- Collaborated with cross-functional teams using **Agile** methodology to implement software enhancements for UI and features based on user & client feedback
- Developed an inventory management system using **NestJS** and **MongoDB** with Clean Architecture principles for healthcare workers to track equipment usage
- Created **WordPress** websites for a heavy-metal musician band and Ensemble to improve branding

PROJECTS

My A-Eye | *React, Flask, Tailwind, Whisper API, OpenAI*

- Developed a virtual assistant application capable of conversating on the external physical environment intended for people with visual impairments to better understand their current surroundings.

NutroPNG | *Vue, Flask, Google Vision API*   Top 3 Hacks, McHacks 10

- Developed a web-application that displays nutritional information of food using image-capture and item-detection from Vision AI's pre-trained ML models.

ReadyDoneData | *Next.js, Flask, Apache Spark*

- Developed a web-application to display graphical patterns from samples of equity market exchanges (200K + messages) treated with Apache Spark.

Zen Bot | *Python, SQLite*

- Developed a Discord (VoIP social platform) bot with the discord.py API wrapper tailored for a chatroom intended for people to find and interact with peers sharing common interests.

DrooVE | *JavaScript, HTML&CSS, Tailwind, Node.js*   Best Beginner Project, CodeJam12

- Developed an itinerary optimization system for truck drivers that lists recommended rest stops based on starting location, destination, and time slept using APIs from Google Maps Platform.

SKILLS

Languages: C/C++, Python, Java, JavaScript/TypeScript, HTML/CSS, Bash, R
Frameworks: Angular, Ionic, React, Next, Vue, NestJS, Express, Bootstrap, Tailwind
Developer Tools: Git, GitHub, PyCharm, IntelliJ, R Studio, VS Code, Android Studio