

Steve Chen

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Hi, I'm a third-year Software Engineering student (AI minor) with 2 years of web development experience.

Education

Bachelor of Engineering (Software Engineering Co-op)

August 2022 - Present

McGill University, Montreal, Quebec

GPA: 3.70

Technical Skills

- **Programming Languages:** Python, JavaScript/ TypeScript, Java, Go, C++, C, ARM Assembly, Rust, VHDL
- **Development Tools:** Visual Studio, VSCode, Docker, Linux, Git, Bash Scripting
- **Frontend Frameworks:** ReactJs, Angular, VueJs, Nextjs
- **Backend Frameworks:** Spring Boot and PosgresSQL, Django and SQLite, Express/Nodejs
- **Libraries:** NumPy, Pandas, C++ STL
- **Build Tool:** Catkin (ROS), Gradle, Maven, CMake, Webpack, Vite
- **Other:** Blender, STM32 embedded system, 3D printing CURA, Excel, Power BI

Work Experience

Software Developer Intern at Ericsson (8 months)

January 2025 – Present

- Work on **5 and 6G** emerging telecommunication technologies.
- Research and carry out **PoCs** on the **RnD Team** collaborating with the Exposure division.
- Developing software product on Android platform using **Flutter** and **Android Studio**.

Full-stack Web Developer Intern at PayFacto

May – August 2023

- Constructed handlers for the **Backend REST APIs** serving CRUD functionality using **Go** to store and retrieve joined data objects in a **MySQL database**.
- Designed manual **unit test** cases for the **Backend** handlers with mock data functions using the **Mockery package** that ensured the integrity of the code added.
- Developed and designed **UI/GUI** components using **VueJs** to display, sort and filter dynamic data.

Software Engineering Projects

Software Lead at McGill Robotics Rover Design Team

September 2023 - Present

- Implemented and redesigned pilot control interface from **PyQT6** to **Angular** with Rosbridge **Websockets** for real-time data visualization and sensor control feedback.
- Integrated **WebRTC** video streaming for low-latency live feeds over **TCP/IP**.
- Resolved network communication issues between rover antennas, strengthening expertise in **IP addressing, MAC addresses, and Ping diagnostics**.

Sports Center Management and Registration Web application

February 2024 – April 2024

- Developed a **full-stack web application** as part of a team of six using **React.js (frontend)**, **Spring Boot (backend)**, **PostgreSQL (database)**.
- Applied **Agile Scrum methodology**, using **GitHub Projects** and wiki documentation, issue tracking, code review and PR.
- Implemented **unit and integration testing** with **Mockito** for QA with **Jacoco test coverage reports**.
- Designed **UML architecture diagrams** using **Umple** to structure **MVC layers**.

Interpersonal Skills

- McGill Robotics Software Division Lead
- McHacks 12 Sponsorship Coordinator
- Language: French (native), English (bilingual)
- Organizer of Robohacks and volunteer at McGill TechFair