Steve Chen

GitHub | steve.chen@mail.mcgill.ca | LinkedIn

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 – 2026 (Expected)**
McGill University, Montreal, Quebec   **GPA: 3.70**

Technical Skills

- **Programming Languages:** Python, JavaScript, TypeScript, Java, C++, SQL
- **Development Tools:** Visual Studio/VSCode, Docker, Linux, Git, Bash Scripting
- **Frontend Frameworks:** ReactJs, Angular, VueJs, Electron
- **Backend Frameworks:** Spring Boot, PostgreSQL, Django, MySQL, Express/Nodejs
- **Libraries:** NumPy, Pandas, C++ STL
- **Build Tool:** Catkin (ROS), Gradle, Maven, CMake, Webpack, Vite
- **Other:** Blender, STM32 Embedded System, Unity, Excel, Power BI, SIP, Wireshark

Work Experience

Software Developer Intern @ **Ericsson (4 months + 4 months extension)**   **January 2025 – Present**
- Conducted experiments on **5 and 6G** emerging telecommunication technologies**.**
- Researched and carried out **PoCs** on the **RnD Team** collaborating with the Exposure division.
- Developed software product on Android platform using **Flutter** and **Android Studio.**

Full-stack Developer Intern @ **PayFacto (4 months)**   **May 2023 – 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 @ **McGill Robotics**   **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/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, 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
- McGill Software Engineering student mentor
- Language: French (native), English (bilingual)
- Organizer of Robohacks and volunteer at McGill TechFair