

# Steve Chen

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## Education

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### Bachelor of Engineering (Software Engineering Co-op)

August 2022 - Present

McGill University, Montreal, Quebec

GPA: 3.60

- Courses: Data Structure and Algorithm, Computer Systems, Digital Logic (VHDL)
- Language: French (native), English (bilingual)

## Technical Skills

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- **Programming languages:** C++, C, JavaScript, TypeScript, Java, Go, ARM Assembly, Rust, VHDL
- **IDE:** Visual Studio, Vim, Eclipse, VSCode
- **Front End:** ReactJs, Angular, VueJs, Vite
- **Back End:** Spring Boot, Django, Express/Nodejs, Flask,
- **Technologies:** Git, GitHub, Linux, Bash MySQL, PostgreSQL, SDL, Numpy, ROS
- **OS and Environment:** Zsh, Powershell, Virtual Machine, ssh, Docker Container, Linux Server
- **Build Tool:** Catkin, Gradle, Make
- **Other:** Blender, STM32 Embedded System, 3D printing CURA, Excel, Power Bi, Raspberry PI VPN, Teensys

## Work Experience

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### IT Support Analyst at IRB

May – August 2024

- Maintained and monitored the status of the local server to ensure the proper functioning of the system.
- Analyzed the ticket system to identify the bottlenecks to improve the efficiency of ticket resolution by pipelining processes.
- Discussed and engaged in team meetings to research potential software workarounds to system updates bugs and issues.
- Contributed to the knowledge base by producing technical documentation and functional schematics to record solutions and troubleshooting procedures.

### 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.
- Engaged in code reviews through GitHub and participated in the daily Scrum meeting following the Agile methodology to raise implementation issues and discuss feasible courses of action.
- Developed and designed UI/GUI components using VueJs to display, sort and filter dynamic data.

## Software Engineering Projects

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### Software Lead at McGill Robotics Rover Design Team

September 2023 - Present

- Implemented and redesigned the current UI controls of the Rover by integrating Rosbridge with Websockets to provide communication over a custom wireless network.
- Integrated WebRTC video communication protocol minimizing latency of parallel video live streaming.
- Resolved the communication of embedded systems on Teensys with ROS using rosserial.
- Developed node controllers and communication procedure to allow ROS communication through TCP, socket and the web applications.