

Mahan Maalekian

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EDUCATION

McGill University

Montreal, QC

B.Eng. Software Engineering Co-op | Minor Applied Artificial Intelligence

Aug. 2023 – May 2027

- **3.93/4.0 CGPA** | J.W. McConnell McGill 3000\$ Scholarship
- **Courserwork:** Data Structures and Algorithms, OOP, Design Patterns, Operating Systems, Functional Programming, Computer Architecture, Networking

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C# (.NET), TypeScript, JavaScript, SQL, ARMv7 assembly, Bash, OCaml

Tools: Git, Docker, Maven, Gradle, CMake, Postman, Linux, Neovim, Azure, Jira,

Libraries/Frameworks: Spring Boot, JUnit, Cucumber, React, Angular, Vue, Django, Pandas, Numpy

EXPERIENCE

Intact Financial Corporation | Spring Boot, Angular

Montreal, QC

Software Developer Intern

May 2025 – August 2025

- Built Spring Boot APIs for Intact's new Atlantic Canada quote portal, enforcing provincial regulations and enabling access for **100,000+** new customers.
- Refactored **70+** Angular components into standalone modules, cutting reuse time by **50%**.
- Built **20+** rules in a Spring Boot contract-processing engine, applying customer-specific logic to **15,000+** insurance contracts daily.
- Proactively resolved a critical production issue, preventing downtime and protecting user experience.

Novatek International | ASP.NET (C#), SQL

Montreal, QC

Backend Software Developer Intern

May 2024 – August 2024

- Developed RESTful ASP.NET API letting **1,000s** of employees from **100+** pharma/biotech firms configure account settings.
- Designed database schema and models in MSSQL Server enabling efficient data management for a new account settings feature.
- Integrated SonarQube into the team's Azure DevOps pipeline, detecting **2,000+** code smells and reducing production bugs by **20%** across **5** projects.
- Refactored **10+** API endpoints, cutting buffering delays and resulting to **5–10×** faster response times.

PROJECTS

CHIP-8 Emulator | C++, C, STM32 | [github link](#)

Aug 2025

- A CHIP-8 emulator in **C++** for an **STM32** microcontroller capable of running any CHIP-8 game.
- Programmed **C** drivers for a keypad and OLED display connected to the microcontroller.
- Integrated the drivers with the emulator for real-time input/output to create a homemade retro gaming console.

McGill Robotics Mars Rover | React (TypeScript), ROS, Python, C++

Sep 2024 - May 2025

- Built a **React** control interface for the McGill Robotics Mars rover with real-time GPS and velocity display.
- Programmed ROS drive systems in **C++** and **Python** for responsive wheel control.
- Implemented ROS publishers, servers, and control protocols to manage rover movement.
- Integrated PlayStation 4 controller input to control the rover.

Vanier Exam Scheduler | Django, HTML/CSS, JS | [vanier-scheduler-railway.app](#) | [github link](#)

Sep 2024

- A final exam scheduling website used by **150+** Vanier College students each semester.
- Enables students to search exams, add them to schedules, and export to their preferred calendar.
- Built with **Django (Python)** for the backend and vanilla **HTML/CSS + JavaScript** for the frontend.