

# Mahan Maalekian

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## EDUCATION

### McGill University

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

- **3.95/4.0 CGPA** | J.W. McConnell McGill 3000\$ Scholarship

Montreal, QC

Aug. 2023 – May 2027

## TECHNICAL SKILLS

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

**Tools:** Git, Docker, Maven, Gradle, Postman, Linux, Azure, Jira

**Libraries/Frameworks:** Spring Boot, Hibernate ORM, React, Angular, Vue, Django, Pandas, Numpy

## EXPERIENCE

### Intact - [intact.ca](https://intact.ca)

Software Developer Intern

Montreal, QC

May 2025 – August 2025

- Contributed to the launch of Intact's quote portal in the Canadian Atlantic provinces by developing **Spring Boot** API endpoints that enforce province-specific regulations and insurance coverages, enabling access for an estimated **100,000 new customers**.
- Refactored a large-scale **Angular** web application by converting **70+ UI components** into standalone modules decoupled from any services, making them **~50% quicker** to reuse and drastically improving the application's maintainability.
- Developed and deployed **20+ norms** for a **Spring Boot** rules-engine service that applies customer-specific business logic to **15,000+ insurance contracts** per day by factoring things such as client history and insured assets.

### Novatek International - [ntint.com](https://ntint.com)

Backend Software Developer Intern

Montreal, QC

May 2024 – August 2024

- Independently modeled and developed a **RESTful API** in **ASP.NET (C#)** for the settings page of a web application, allowing **thousands of employees** from **100+ pharmaceutical/biotech companies** to configure account settings and customize preferences.
- Created **MSSQL Server** scripts to create the necessary schema and tables for the settings management functionality. Used **Entity Framework Core** to then generate corresponding **C#** model classes from the **MSSQL Server** database.
- Set up and configured a **SonarQube** database and server, and then integrated **SonarQube** into the team's main **CI/CD pipeline** on **Azure DevOps**, enabling the detection of **2000+ code smells** and reducing production bugs by **20%** across **5 projects**.

## PROJECTS

### McGill Robotics Rover Software Engineer

**React (TypeScript), ROS, Python, C++**

- Developed a control interface for the rover in **React**, enabling real-time robot navigation by displaying GPS coordinates, location tracking, and velocity data, while providing manual control capabilities for competition environments.
- Engineered drive control systems for the rover using **ROS** in **C++** and **Python**, implementing publishers, servers, and control protocols to manage responsive wheel movement during competitions.

### CHIP-8 Emulator | [GitHub](https://github.com)

**C++, C, STM32**

- Developed a CHIP-8 emulator in **C++** for an **STM32 microcontroller**, integrating a lightweight keypad and OLED display to create a portable retro gaming console that can run any CHIP-8 game.
- Programmed drivers in **C** for both the keypad and OLED display. Integrated them into the emulator code to allow for real-time input from the keypad and output to the OLED display.

### Vanier Exam Scheduler | [vanier-scheduler-railway.app](https://vanier-scheduler-railway.app) | [GitHub](https://github.com)

**Django, HTML/CSS, JavaScript**

- Designed and deployed a **final exam scheduling tool** that is used by **150+ Vanier College students** every semester to effortlessly search for their final exams, add them to their schedules, and export them to their preferred calendar. Built using **Django** for the backend and vanilla **HTML/CSS + JavaScript** for the frontend.