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*
- Developed Spring Boot services for Intact's new Atlantic Canada quote portal, enforcing provincial regulations and enabling access for **100,000+ new customers**.
- Deployed **20+** rules in a Spring Boot contract-processing engine, applying customer-specific logic to **15,000+ insurance contracts** daily.
- Refactored **70+** highly coupled Angular components into standalone modules, cutting reuse time by **50%**.
- 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 APIs in ASP.NET allowing **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.
- Refactored **10+** API endpoints, cutting buffering delays and resulting in **5–10× faster response times**.
- Integrated SonarQube into the team's Azure DevOps pipeline, detecting **2,000+** code smells and reducing production bugs by **20%** across **5** projects.

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 control interface in **React** 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-production-up-railway.app](#) | [github link](#) Sep 2024
- A final exam scheduling full-stack web app 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.