

# CARL MAALOULI

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## WORK EXPERIENCE

### Software Developer (Full Stack - SaaS)

Dec. 2024 – Present

Axiom Innovations Inc. — North York, Toronto - Canada (On-site)

- Build and maintain front-end and back-end features for a secure, large-scale **loan application portal** and **underwriting platform** — part of the Scarlett Network software suite.
- Develop RESTful APIs and web applications with **.NET** and integrate APIs into responsive UIs built with **Vue.js**.
- Create reusable components, scheduled background jobs, and automated reporting and communication workflows.
- Maintain and enhance legacy .NET systems with feature additions, as well as performance and stability fixes.
- **Primary technologies used:** C# • JS • HTML/CSS • .NET • Vue.js • AWS • Entity Framework • SQL Server • MySQL • MongoDB • Redis • REST APIs • Git • Azure DevOps • Visual Studio • VS Code

### .NET Applications Developer (Full Stack)

May 2022 – Aug. 2023

Environment and Climate Change Canada (ECCC) — Downsview, Toronto - Canada (Hybrid)

- Worked on the development of **cloud-based applications** at ECCC: Developed new features/components based on **secure coding** principles, fixed bugs, created tests, updated documentation, and managed databases according to **Agile** methodologies.
- Supported a few **legacy on-premise applications**: code updates/enhancements, code reviews, and bug fixes.
- Participated in the development of an internal tracking and management app for ECCC applications: Design, development, and code reviews.
- **Primary technologies used:** C# • JS • HTML/CSS • .NET • ASP.NET MVC • Blazor • REST APIs • Azure Functions • Azure Cloud • Azure DevOps • Bootstrap • Entity Framework • Ant Design • SQL Server • Visual Studio

## TECHNICAL SKILLS

**Languages:** C • C++ • C# • Python • Java • JavaScript • TypeScript • ARM Assembly • HTML • CSS • Shell Scripting

**Frameworks & Databases (SQL/NoSQL):** .NET • ASP.NET • Blazor (WASM & Server) • Flask • Django • Flutter • Vue.js • Xamarin.Forms • Node.js • React • Tailwind CSS • Ant Design • Bootstrap • Entity Framework • MS SQL Server • PostgreSQL • MySQL • SQLite • CosmosDB • MongoDB • Redis

**Machine Learning (ML) & Data Science:** Probabilistic Reasoning & Analysis • Large Language Models (LLMs) • TensorFlow • PyTorch • NumPy • scikit-learn • Pandas • matplotlib

**Software Engineering Tools & Methodologies:** Azure Cloud • Azure DevOps • AWS • Git • TFS • GitHub • Vite • Docker • Kubernetes • IIS • CI/CD Pipelines • Visual Studio • VS Code • SDLC • Agile • Scrum • System Design • Microservices • REST APIs

**Cyber Security:** Secure Coding Principles • Cryptography • Web App Security • Access Control • Network & Hardware Security

**Other Skills:** Test Driven Development (TDD) • Operating Systems • Networking • IoT Devices • Computer Hardware & Architecture • Digital Systems & Electronics • Linux • Microsoft 365 • LaTeX

## SOFT SKILLS

**Spoken Languages:** English (Excellent) • French (Very Good) • Arabic (Native)

**Other:** Diplomacy (**Model UN Award**) • Teamwork • Communication • Problem Solving • Adaptability

## EDUCATION

University of Toronto (UofT) | St. George Campus - Canada

Sept. 2019 – June 2024

BASc in **Computer Engineering**, Minor Program in Artificial Intelligence

Dean's Honour List (Years 1 & 4)

## PROMINENT UNIVERSITY PROJECTS

Capstone Project (AI/ML) - Large Language Model for Financial Report Analysis

Sept. 2023 – April 2024

*Final Engineering Project*

Web Application for Event Management and RSVP Tracking

Sept. 2023 – Dec. 2023

Machine Learning Model for Human Detection

Jan. 2022 – April 2022

Game Development on an ARM Processor (Game: 'Breakout')

March 2021 – April 2021

Interactive City Mapping Software (C++)

Jan. 2021 – April 2021

For projects details, please visit my [LinkedIn profile](#) or my [webpage](#) (links also in the resume header).