

Carl Maalouli

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EDUCATION

Sept. 2019 - June 2024 **University of Toronto (UofT)** | St. George Campus - Canada
BASc in **Computer Engineering**, Minor Program in Artificial Intelligence
Dean's Honour List (Years 1 & 4)

WORK EXPERIENCE

Dec. 2024 - present **Software Developer (Full Stack)**
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 and underwriting platform** (Scarlett Network).
- 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.
- **Technologies used:** C# • JS • HTML/CSS • .NET • Vue.js • AWS • Entity Framework • SQL Server • MySQL • MongoDB • REST APIs • Git • Azure DevOps • Visual Studio • VS Code

May 2022 - Aug. 2023 **.NET Applications Developer (Full Stack)**
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.
- **Technologies used:** C# • JS • HTML/CSS • .NET • ASP.NET MVC • Blazor • Azure Functions • Azure Cloud • Azure DevOps • REST APIs • Bootstrap • Entity Framework • Ant Design • SQL Server • Visual Studio

TECHNICAL SKILLS

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

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

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 • Docker • IIS Server • CI/CD Pipelines • Visual Studio • VS Code • SDLC • Agile • Scrum • Software Architecture • Microservices • REST APIs

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

Other Skills: Operating Systems • Internetworking • Computer Hardware & Architecture • Digital Systems & Electronics • IoT Devices • Linux • Microsoft 365 • LaTeX

SOFT SKILLS

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

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

PROMINENT UNIVERSITY PROJECTS

Sept. 2023 - April 2024 **Capstone Project (AI/ML) - Large Language Model for Financial Report Analysis**
Final Engineering Project

Sept. 2023 - Dec. 2023 **Web Application for Event Management and RSVP Tracking**

Jan. 2022 - April 2022 **Machine Learning Model for Human Detection**

March 2021 - April 2021 **Game Development on an ARM Processor (Game: 'Breakout')**

Jan. 2021 - April 2021 **Interactive City Mapping Software (C++)**

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