Carl Maalouli

carl.maalouli@outlook.com | +1 (437) 388-3686 | linkedin.com/in/carlmaa | carl-maalouli.github.io | Toronto, CA

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)
Sept. 2015 - June 2019	**SABIS International School**	Adma - Lebanon Lebanese Baccalaureate (General Sciences): Ranked 50 in Lebanon - Highest Honours

TECHNICAL SKILLS

Programming Languages:	C • C++ • C# • Python • Java • JavaScript • Assembly Language • HTML • CSS • Shell Scripting
Frameworks & Databases (SQL/NoSQL):	.NET • ASP.NET • Blazor (WASM & Server) • Xamarin.Forms • Flask • Django • Flutter • Ant Design for Blazor • Bootstrap • Tailwind CSS • Microsoft SQL Server • PostgreSQL • MySQL • SQLite • CosmosDB • MongoDB
Machine Learning & Data Science:	Probabilistic Reasoning & Analysis • TensorFlow • PyTorch • NumPy • Pandas • scikit-learn • OpenCV • matplotlib • Jupyter • Google AI Platform
Software Engineering Tools & Methodologies:	Azure Cloud Services • AWS • Source Control (Git) • GitHub • Azure DevOps • Docker • Continuous Integration • Continuous Deployment • Visual Studio • VS Code • DevOps • Software Architecture • Microservices • Frontend & Backend Development (Full-Stack) • Agile • Scrum • REST APIs
Cyber Security:	Secure Software Development • Cryptography • Web App Security • Access Control • Network Security • Hardware Security • Malware • Ethical Hacking
Other Skills:	Operating Systems • IT Fundamentals • Internetworking • Computer Hardware & Architecture • Digital Systems & Electronics • Verilog • MATLAB • Intel Quartus Prime • Microsoft 365 • LaTeX

WORK EXPERIENCE

May 2022 - Aug. 2023	**.NET Applications Developer (Full-Stack)** Environment and Climate Change Canada (ECCC)	Downsview, Toronto - Canada

- 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 reviews, code updates, and bug fixes.
- Cooperated with other students at ECCC to develop an **internal tracking and management app** for ECCC applications: Development and revision of code changes (PR Reviews).
- **Tools used:** C# • JS • HTML/CSS • .NET • ASP.NET MVC • Blazor • Azure Functions • REST APIs • Bootstrap • Ant Design • SQL Server • Azure Cloud • Azure DevOps • Visual Studio

SOFT SKILLS

Languages:	English (Excellent) • French (Very Good) • Arabic (Native)
Other:	Diplomacy **(Model UN Award)** • Public Speaking • Leadership • Teamwork • Communication • Fast-Learning • Problem Solving • Decision-Making • Time Management • 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).