## **EDUCATION**

#### UNIVERSITY OF TORONTO

St. George Campus
Toronto, ON., Canada
BASC IN ECE - ELECTRICAL &
COMPUTER ENGINEERING
FOCUS IN COMPUTER ENGINEERING
MINOR IN ARTIFICIAL INTELLIGENCE
Graduation: June 2024

#### **RELEVANT COURSEWORK**

Algorithms and Data Structures
Operating Systems
Software Engineering
Software Communication and
Design
Computer Networks /
Internetworking
Machine Learning / Artificial
Intelligence
Probabilistic Reasoning
Digital Systems/Electronics
Computer Hardware and

## SKILLS

Architecture

### **TECHNICAL SKILLS**

Computer Security

Engineering Leadership

C/C++/C# • Python •
SQL/NoSQL Databases • Java
• JavaScript • ASP.NET •
Blazor • MVC • Azure Cloud
Services • DevOps •
Front/Back-end Software
Development • Source Control
(Git) • Al/ML • Computer
Hardware / Architecture •
Information Technology • ARM
Architecture / Assembly •
Verilog • Linux/Unix Scripting •
Xamarin.Forms • MATLAB •
Intel Quartus Prime

#### **SOFT SKILLS**

Languages:
English • French • Arabic
Other:

Teamwork • Public Speaking • Communication • Software Communication • Leadership • Adaptability • Problem Solving • Decision-Making • Time Management

## WORK & UNIVERSITY EXPERIENCE

# **ENVIRONMENT AND CLIMATE CHANGE CANADA** | .NET APPLICATIONS DEVELOPER

May 2022 - August 2023 | Environment and Climate Change Canada - Downsview, Toronto, CA

- Worked on a greenfield project to explore the development of **cloud based applications** at ECCC: implement new features, fix bugs, create tests, update documentation, and manage databases.
- Supported a couple of legacy applications: updates and bug fixes.
- Cooperated with other students at ECCC on the development of an **internal tracking** and management tool for ECCC applications.

# APPLIED FUNDAMENTALS OF MACHINE LEARNING | UNIVERSITY PROJECT - APS360

Jan 2022 - April 2022 | UofT

- Designed and developed a powerful object detection machine learning model
- Applied the model in a system designed to keep count of the number of people in a room through a video feed, useful for enforcing in-store capacity limits during Covid-19.

# **OPERATING SYSTEMS** | UNIVERSITY PROJECT - ECE344

Sep 2021 - December 2021 | UofT

- Implemented part of an operating system
- Worked with operating system structures, concurrency, synchronization, deadlock, CPU scheduling, memory management, and file systems.

#### WHAT A BAGEL | STAFF

Jun 2021 - Sep 2021 | Toronto, CA

• Managed online app orders, provided customer service, and worked as a sandwich/coffee bar staff member.

## ARM PROCESSOR OPEN SOFTWARE | UNIVERSITY PROJECT - ECE243

Mar 2021 - Apr 2021 | UofT

• Created a version of the game "Breakout" using C and Assembly Language for the ARM processor, using CPUlator as the development environment.

# SOFTWARE COMMUNICATION & DESIGN | UNIVERSITY PROJECT - ECE297

Jan 2021 - Apr 2021 | UofT

- Collaborated with a team of three engineering students to develop an interactive **city mapping software** for Linux/Unix using C++.
- Implemented algorithms for efficient path finding: Dijkstra's, A\* Heuristic, Multi-Start.

# **CLIENT COMMUNICATION & SOFTWARE DESIGN** | UNIVERSITY PROJECT - ESPII Jan 2020 - Apr 2020 | UofT

• Worked in a team of six engineering students to design a software solution for classroom group formation and seat assignment, with direct communication and input from the client (Professor Chris Bouwmeester - UofT).

## EXTRACURRICULARS AND VOLUNTEER WORK

### ENFANTS DE LUMIERE | FREE FOOD MARKET FOR FAMILIES IN NEED

Sep 2018 - Jun 2019 | Beirut, Lebanon

Assisted with inventory management and distribution to registered families

### MODEL UNITED NATIONS | DIPLOMACY AWARD

Sep 2016 - Jun 2017 | Lebanese American University

 Represented Germany in a World Trade Organization's conference and received the Diplomacy Award for displaying proper diplomacy and excellent communication skills during debates and negotiations.