

## Education

### Carleton University

*Bachelor of Computer Science: Computer and Internet Security Stream*  
*Concentration: Co-op program*

2019 – 2024  
Ottawa, ON

Availability: 4-8 months  
Current Overall CGPA: 10.72/12  
Current Major CGPA: 10.44/12

## Highlight of Qualifications

- > Programming languages: C++, C, Python Java and JavaScript
- > Completed parts of an airline using C++ in a Unix environment. Applied Object-Oriented Programming (OOP) principles such as multiple inheritance, polymorphism, encapsulation, abstraction, and templates for scalability, flexibility, and robustness
- > Created a text-based C program, applied multi-threading in a Unix environment, and made a pseudo-code, to ensure all necessary tools to the GUI program are applied such as array of pointers, multiple runners and mutex
- > Created a C program in a Unix environment, which provides the end user with the ability to encrypt and decrypt messages using a secret key to protect against cracking encrypted messages
- > Learned the efficiencies of data structure sorting algorithms in Python such as bubble sort, counting sort, and selection sort
- > Bilingual in English and Arabic

## Work Experience

### IT Programmer Analyst (full time) at CRA, Ottawa ON

Sept 2021 - Present

- > Cleaned up the backend microservices code and conducted research on new emerging technologies applicable to ePayroll project
- > Designed the front-end of the Event Driven Architecture (EDA) ePayroll PoC Project and uploaded the project to Gitea within the Strategic Engineering and Technology Integration (SETI) Division testing team
- > Created a Virtual Machine (VM) on AZURE ePayroll using the Command Line Interface (CLI)

### Sales Associate (part time) at RW & Co, Ottawa, ON

Jan 2020 - Aug 2021

- > Maintained inventory room with great efficiency
- > Greeted customers warmly, offered assistance and informed them about latest store promotions
- > Helped customers by actively engaging in discussions about their needs and products that fit them

### **Compulite Inc (Co-op program), Ottawa, ON**

*Feb - Jul 2019*

- > Managed to set up clients' computers and workstations off site with great efficiency
- > Organized and managed inventory stocks
- > Installed windows 10 as well as any missing software programs on clients' computers

### **Intern at Nokia (Future Tech Program), Ottawa, ON**

*Jul - Aug 2018*

- > Devised and documented 15 different platform sizing models to greatly simplify the created customer proposals
- > Upgraded complex Big Data and Analytic product meeting deadlines
- > Researched various technologies to meet currently unsatisfied market demands

### **Digitera Marketing (Co-op program), Ottawa, ON**

*Feb - Jun 2018*

- > Created basic apps like calculator and food menus using Android Studio
- > Revamped the old version of the night club disco app using Android Studio
- > Added photo-shopped background color designs to the night club disco app

## **Projects**

### **Website Development & Design**

*Jan 2022*

- > Created and designed a website using HyperText Markup Language (HTML), JavaScript (JS), Bootstrap and Cascade Style Sheets (CSS). Additionally, used Adobe Photo-shop to add animated images on the website

### **Store / Warehouse**

*Dec 2021*

- > Programmed an inventory system for a store using C++ in a UNIX environment. Applied Object-Oriented Programming (OOP), such as multiple inheritance, polymorphism, encapsulation and abstraction to increase scalability, robustness and flexibility of the software. Additionally, implemented data structures, such as linked list, arrays, and created a high level UML Diagram of the finished application

### **AutoPark Inventory**

*Jul 2020*

- > Completed an auto park assignment in Java using Object-Oriented Programming

### **Minesweeper game**

*Mar 2020*

- > Programmed a minesweeper text-based version game using Python. Implemented tools such as functions, nested and regular for loops, print statements, conditional statements, and recursion

## **Extra Curricular Activities**

### **Carleton University hackathon**

*Jan 2020, Nov 2019*

- > Applied tools learned at school to analyze "Murder on the second floor raw data.json" using Python, File I/O, for loop, conditional statement, and print statements
- > Gained experience in the use of GitHub tools