George Girgis

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🎓 Education

Carleton University   2019 – 2024
Bachelor of Computer Science: Computer and Internet Security Stream   *Ottawa, ON*
Concentration: Co-op program

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
> Coded 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 on 6 files
> Completed ePayroll Simulation Environment to show the pros/cons of using Strategic Environment & Technology Integration (SETI) Lab OpenShift cluster and Azure Red Hat OpenShift (ARO) Cluster
> Designed the front-end on 14 files of the Event Driven Architecture (EDA) ePayroll Proof of Concept (PoC) Project and uploaded the project to Gitea, meeting expected deadline
> Conducted research on 4 new emerging technologies that resulted in 38.4% increase in speed efficiency and up to 99.95% cost effectiveness applicable to the project
> Created a Virtual Machine (VM) on AZURE ePayroll using Command Line Interface (CLI) to make use of Azure Red Hat OpenShift (ARO) cluster
> Initiated a wiki on CRA confluence with a step-by-step explanation on how to create and set up an AZURE VM using CLI, leveraging 100% preparation time for other employees

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*

> Set up 30 clients' computers and workstations off site on 2 corporate companies
> Organized up to 20 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 1 complex Big Data and Analytic product meeting deadlines
> Researched various technologies such as Jaspersoft 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 on 4 files using Android Studio
> Added photo-shopped background color designs to the night club disco app

🧪 Projects

Website Development & Design   *Jan 2022*

Created, designed and deployed my portfolio website using HyperText Markup Language (HTML), JavaScript (JS), Bootstrap and Cascade Style Sheets (CSS). Additionally, used Adobe photo-shop to add animated images and ensured website's size is compact achieving up to 100% speed efficiency

Store / Warehouse   *Dec 2021*

Programmed an inventory system for a store using C++ in a UNIX environment and applying OOP principles decreasing code duplication up to 60%. Implemented data structures (arrays, linked list), and created a high level UML Diagram of the software

AutoPark Inventory   *Jul 2020*

Completed an auto park assignment in Java using OOP decreasing code duplication up to 60%

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