Alhoussine Khallil

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Education

Bachelor of Computer Science Honours (Minor in Business)   *Carleton University, September 2021-**Present***

7.80 CGPA

Relevant Courses

Data Types and Algorithms [***COMP2402***], System Engineering [***COMP2401***], Business Information and Communication Technologies [***BUSI1402***]

Projects

Web Socket-based Chat

- Built a client-side implementation of a chat application that communicates with a server using socket.io.
- The client-side code, written in HTML and JavaScript, provides functionality to connect to a chat server, send public messages, and send private messages to one or more users.

GPA Storage System

- Developed a C application that reads student data (student number and GPA) from the user, validates the input, and orders the data by GPA which allows the user to analyze student performance easier.

Pet Clinic Database System

- Built a database for a pet clinic in C++ that applies the Object Oriented concepts of inheritance hierarchies, and polymorphism using dynamic binding.
- Uses two different data structures: Arrays are used to store customer data. Linked Lists are used for pet data.

Map-bio

- Programmed a python application that uses the Pygame library to generate an 8x5 grid map of random tile images selected from either the 'Desert' or 'Forest' art category, depending on what the user chooses.

The Rise of TikTok

- Wrote a research paper with the collaboration of three other undergraduate students, exploring the growth and impact of TikTok, and how it has transformed from an entertainment site to a platform for activism, and economic opportunities.
- The paper also touches on how the app is designed to keep engagement high and discusses TikTok's uncertain future due to state restrictions, and strong competitors.

Skills

Programming Languages
- C, C++, Python, Java

Computer Software and Technology
- Git, IntelliJ IDEA, Visual Studio
- Virtualization, Emulation, Linux

Web development
- HTML, CSS, JavaScript

Libraries
- Pygame, Socket.io

Other
- Problem-solving, Critical thinking
- Communication, Team

Miscellaneous

- Cyber Security
- Video Games and Soccer
- Cinema and Photography
- Psychology

Volunteering

- Tutoring 5th graders students in Mathematics at English Modern School (Doha, Qatar)
- Participated in national competition representing English Modern School in Mathematics (Year 10) and Soccer (U16)