

Majed Mouawad

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EDUCATION

University of Ottawa

Bachelor of Applied Science in Computer Engineering (COOP)

Ottawa, ON

Sep. 2020 - Dec. 2024

- Cumulative GPA: 3.83/4
- Dean's Honour List, Merit Scholarship, Differential Scholarship
- Relevant Coursework: Data Structures and Algorithms, Operating Systems, Data Communication & Networking, Computer Systems Design

PROFESSIONAL EXPERIENCE

University of Ottawa, IT Services

Software Engineering Intern, 3 terms

Ottawa, ON

May 2022 - Dec. 2023

- Designed and built a .NET CORE application allowing medical residents to submit and receive stipend claims
- Programmed SQL scripts to efficiently migrate 500k+ lines of data from MySQL database server to Microsoft SQL
- Supported the modernization and security improvement of 15 .NET applications by implementing Azure SSO, and updating code and frameworks while strictly adhering to the latest documented recommendations
- Analyzed over 15 Qualys Cybersecurity reports and resolved all threats to meet current industry standards

PROGRAMMING PROJECTS

OHM AI

- Built an NLP tool using Python, Flask and React.JS to improve video/audio accessibility for deaf and hard-of-hearing people by transcribing and summarizing digital content
- Engineered a translation mechanism using AI to allow for real-time translation of content transcripts

Finger Counter & Hand Categorization

- Built a program that actively counts the number of fingers lifted by a user in front of a live-feed camera using Python, OpenCV, and Mediapipe
- Leveraged computer vision to actively categorize any hand being displayed on screen as left hand or right hand

A* Pathfinding Algorithm Visualizer

- Developed a Python program that visualizes the A* Algorithm which finds the shortest route between a start node and an end node without going through existing barriers
- Designed a Pygame GUI that allows users to select the start and end node, and set barriers in between these nodes

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, HTML, CSS, PHP, SQL, JavaScript

Frameworks: ASP.NET Core, ASP.NET, Blazor, MVC, JUnit, Bootstrap, Pygame, Flask, Laravel, React.Js, OpenCV, Mediapipe

Developer Tools: Git, Bash, Jira, SQL Server Management Studio, Visual Studio, Android Studio

LEADERSHIP

Business Technology Association, University of Ottawa

Vice President of External Affairs and Bilingualism

Ottawa, ON

Jan 2023 - Present

- Provided workshops and networking opportunities to over 350 students interested in careers such as project management, data engineering, consultancy, etc...
- Secured over \$10000 in yearly sponsorship revenue by successfully structuring, pitching and closing long-term collaboration deals with major firms like EY, PwC, Nokia, and more
- Forged strong relationships with corporations including IBM, Accenture and KPMG, resulting in joint hosting of events to amplify reach and participation
- Orchestrated cross-association collaborations with over 5 different university groups to curate enhanced events and enrich learning opportunities for students