

# Majed Mouawad

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## EDUCATION

### University of Ottawa

Ottawa, ON

*Bachelor of Applied Science in Computer Engineering (COOP)*

*Sep. 2020 - Present*

- Cumulative GPA: 3.83/4 | Dean's Honour List | Merit Scholarship | Differential Scholarship | Rocketry Club
- Relevant Coursework: Data Structures and Algorithms, Software Design I & II, Digital Systems, Computer Architecture

## EXPERIENCE

### University of Ottawa | IT Department

Ottawa, ON

*Software Development Intern*

*May 2022 - Aug. 2022*

- Worked on the modernization and security improvement of multiple web applications using .NET Core frameworks
- Re-wrote ASP.NET web applications in ASP.NET Core Blazor and MVC to insure security and reduce vulnerabilities
- Debugged and fixed over 50 high-priority tickets involving back-end, front-end, database and security issues
- Designed the front-end of multiple web-pages in compliance to clients' requirements using HTML, CSS, and JavaScript
- Utilized Entity Framework Core to query data, execute stored procedures and populate over 30 web-pages and forms
- Wrote and executed several QA test cases that resulted in the detection and remediation of several defects and bugs in multiple web applications
- Managed and efficiently updated an "in project scope" confluence page that tracks the progress done by the team across development, QA, and production for over 10 different applications
- Completed 2 agile sprints per month with a 100% task completion rate each sprint

## PROGRAMMING PROJECTS

### OHM AI | Founder & Developer | Python, Flask, React.js

- Developed and launched a non-profit artificial intelligence backed web application to improve video/audio accessibility to deaf and hard of hearing people by transcribing, translating, and summarizing digital content
- Built a full-stack web application leveraging React.js, Python/Flask, deep learning libraries and NLP APIs to download, transcribe and summarize youtube videos
- Introduced a translation mechanism by utilizing deep-translate to allow for real-time translations of the video's transcript

### Finger Counter & Hand Categorization | Python, OpenCV, Mediapipe

- Designed a program that counts the number of fingers lifted by the user in front of the live-feed camera
- Leveraged computer vision to actively categorize any hand being displayed on screen as left hand or right hand.

### Service Novigrad | Java, Android Studio, Git, Firebase, CircleCi

- Deployed an android application that provides citizens of a province access to services and allows them to book appointments
- Assigned employees to different branch locations, allowing them to approve, reject or differ applications and appointments
- Created different user types (Administrator, Employee, Client), each having different privileges and access type
- Implemented secure authentication using Firebase and automated testing using CircleCi

### A\* Pathfinder Visualizer | Python, Pygame

- Developed a 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 allow users to select the start and end node, and set barriers in between these nodes

### Sudoku Game and Solver | Python, Pygame

- Developed a GUI that allows the user to play the game of Sudoku at 3 different difficulties
- Implemented a solver that solves any Sudoku Puzzle using the backtracking algorithm

## TECHNICAL SKILLS & LANGUAGES

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

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

**Developer Tools:** Git, Bash, Jira, Circle CI, Visual Studio, Android Studio, Firebase

**Languages:** Native Fluency in English, French and Arabic

## VOLUNTEERING EXPERIENCE

### College de la Sainte Famille Fanar | Social Work Volunteer

Sep. 2014 - June 2020

- Fund-raised and donated money to underprivileged children, orphans, and people with special needs
- Launched a Christmas gift initiative that targeted elderly people spending Christmas by themselves
- Organized and participated in field trips for underprivileged children, as well as visits to centers offering service to people with special needs