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 improvement of multiple web-applications by utilizing multiple .NET Core frameworks
- Re-wrote .NET uOttawa Faculty of Medicine web-applications in .NET Core, Blazor, and MVC
- Debugged and fixed over 50 high-priority tickets including back-end, front-end, and database issues
- Utilized EFCore to query data, run stored procedures and populate over 20 web-pages and forms
- Wrote and executed several QA test cases for multiple web applications that resulted in the detection and remediation of multiple defects and bugs
- 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 two agile sprints per month with a 100% task completion rate

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 to book appointments
- Assigned employees to different branch locations, allowing each one of them to approve, reject or differ applications
- 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
Frameworks: .NET Core, ASP.NET Core, Blazor, MVC, JUnit, Entity Framework Core, Bootstrap, Pygame, Flask
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 over $5,000 USD 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