

Mohamad Deifallah

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EDUCATION

Carleton University Bachelor of Engineering in Software Engineering	Ottawa, ON <i>Sep. 2019 – Apr 2023</i>
Carleton University Bachelor of Computer Science, Major	Ottawa, ON <i>Sep. 2024 – Apr 2025</i>

EXPERIENCE

Screening Officer Canadian Air Transport Security Authority, GardaWorld Aviation Services	Mar 2023 – Jul 2023 Ottawa, ON
<ul style="list-style-type: none">Utilized X-Ray technology to screen passengers and their belongings, ensuring compliance with security protocols.Controlled access to restricted areas and prevented prohibited items from entering secure zones.Responded and analyzed security alarms using automated systems, reporting any abnormalities, unlawful conduct or violations.	
Research Associate/ Web Developer, Co-op National Research Council Canada	Jan 2024 – Apr 2024 Ottawa, ON
<ul style="list-style-type: none">Developed and assessed proposals for new research initiatives, ensuring clarity, compliance, and feasibility aligned with NRC's standards.Led the development of a web application using HTML, CSS, and JavaScript, facilitating improved data management and user interaction for a research project.Provided input into the overall direction and research priorities within the context of the Construction Research Centre's strategic plan.	

PROJECTS

Photo-Editing Program Software Developer	Jan 2020
<ul style="list-style-type: none">Collaborated in a team of four to develop a small-scale interactive photo-editing program, following detailed functional requirements.Created a text-based user interface for the photo-editing program, emphasizing digital color representation and pixel manipulation in Python.	
E-Commerce Application Lead Software Engineer	Jan 2021
<ul style="list-style-type: none">Developed a Java application prototype with over 600 lines of code and 6+ custom classes, integrating object-oriented design patterns to enhance functionality and maintainability in simulating a dynamic virtual store environment.Implemented a textual interface for users to browse products, add items to a virtual cart, and proceed to checkout.	
D.U.C.K.I. Research Project Project Developer	Jan 2023
<ul style="list-style-type: none">Proposed a system that utilizes AI (Logistic Regression, Linear Regression and Neural Networks) to provide a tailored learning experience to students.Presented D.U.C.K.I., showcasing its innovative features such as voice input, mouth movement analysis, and interactive responses.	

SKILLS

Languages: Python, Java, C, C++, JavaScript
Developer Tools: Git, OpenAI API/GPT, \LaTeX
Technologies: Node.js, React, HTML, CSS, Linux, Oracle VM
Concepts: Artificial Intelligence/ Machine Learning, Agile Methodologies, Object-Oriented Programming, Algorithms and Data Structures, Cryptography, UX/UI Design, UML Diagrams

VOLUNTEERING

Faculty of Engineering and Design Councillor Carleton University Students Association, Inc.	Ottawa, ON <i>Jan. 2020 – Apr. 2022</i>
<ul style="list-style-type: none">Represented the students of Engineering and Design by being the voice of their issues and services.Engaged in council meetings and discussed solutions facing the student body.	