

Mohamad Deifallah

Canadian Citizen | Active Reliability Security Clearance

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EXPERIENCE

Junior Information Management Technologist Intern

Oct 2024 - Dec 2024

Natural Resources Canada, NRCan

Ottawa, ON

- Designed, implemented, and administered a dynamic sub-report selection table in Microsoft Access to streamline master report generation and reduce manual data manipulation.
- Developed, tested, and integrated **VBA** scripts to automate the visibility of report sections based on user selections, improving database flexibility and efficiency.
- Collaborated with project leads to evaluate and implement **SQL**-based filtering techniques and alternative form designs for enhanced report customization and automation.

Junior Software Developer Intern

Jan 2024 - Apr 2024

National Research Council Canada, NRC

Ottawa, ON

- 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.

PROJECTS

D.U.C.K.I Research Project | *MS Office*

Jan 2023

- 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.

E-Commerce Application | *Java, IntelliJ IDEA*

Jan 2021

- 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.

Photo-Editing Program | *Python, Wing 101*

Jan 2020

- 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**.

EDUCATION

Carleton University

Ottawa, ON

BEng in Software Engineering

Sep 2019 - Dec 2025

- Courses: Artificial Intelligence, Machine Learning, Agile Methodologies, Object-Oriented Programming, Algorithms and Data Structures, Cryptography, UX/UI Design, UML Diagrams

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, SQL

Technologies: NodeJS, React, HTML, CSS, Git, \LaTeX , Django, Bootstrap, Flutter,

Platforms: Kubernetes, Docker, PostgreSQL, MySQL, Linux (Kali, Ubuntu), Raspberry, AWS, Microsoft Access

Soft Skills: Project Management, Client Service Orientation, Team Player, Effective Interpersonal Relationships

VOLUNTEER EXPERIENCE

Faculty of Engineering and Design Councillor

Jan 2020 – Apr 2022

Carleton University Student's Association Inc.

Ottawa, ON

- 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