

Mohamad Deifallah

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EDUCATION

Carleton University

Bachelor of Engineering in Software Engineering

Ottawa, ON

Sep. 2019 – Present

EXPERIENCE

Research Associate/ Web Developer, Co-op

Jan 2024 – Present

National Research Council Canada

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.
- Provided input into the overall direction and research priorities within the context of the Construction Research Centre's strategic plan.

Front-End Developer, Internship

Apr 2022 – Sep 2022

LineupAppQ

New York, NY

- Assisted in front-end development using **React** with a remote agile team, met on Google Meets.
- Implemented **UX Design** alongside team members to improve the product.
- Completed features given to me by the senior team directly on the application.
- Worked to integrate payment authentication on the client side through Stripe.

PROJECTS

D.U.C.K.I. Research Project | Project Developer

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 | Lead Software Engineer

Jan 2021

- Developed a **Java** application prototype for a specialized virtual store interface with key classes like StoreManager, StoreView, Inventory, ShoppingCart, and Product.
- Laid the foundation for future GUI integration and created custom classes to represent various product varieties, extending the base Product class.
- Implemented a textual interface for users to browse products, add items to a virtual cart, and proceed to checkout.

Photo-Editing Program | Software Developer

Jan 2020

- Collaborated in a team of four to develop a small-scale interactive photo-editing program, following detailed functional requirements.
- Contributed to creating a text-based user interface for the photo-editing program, emphasizing digital color representation and pixel manipulation in Python.
- Ensured program compatibility with lab environment and followed **Python** coding conventions, resulting in successful project completion and team-based grading.

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

Ottawa, ON

Carleton University Students Association, Inc.

Jan. 2020 – Apr. 2022

- 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.