Omar Abdelhadi

omarabdelhadi.com

 J 343-777-0343

 □ omarabdelhadi129@gmail.com

 Inkedin.com/in/omarabdelhadi129

 □ github.com/omarabdelhadi129

Education

Carleton University Sep. 2020 – Dec. 2024

Bachelor of Computer Science (Honours) - Artificial Intelligence and Machine Learning, GPA: 3.73/4

Ottawa, Ontario

Technical Skills

Languages: Python, Java, C/C++/C#, HTML/CSS, JavaScript, TypeScript, SQL

Tools & Frameworks: Node.js, React, Tailwind, Next.js, Docker, Jenkins, Git, GitHub, Bitbucket, Vite, NumPy, Pandas

Cloud & DevOps: AWS, Azure, CI/CD Pipelines, Kubernetes, Terraform, Jira, Blackduck

Databases: MySQL, MongoDB, Microsoft SQL Server

Operating Systems: Linux, Mac, Windows

Experience

Junior Software Developer

Jan 2024 - Current

3 Canadian Space Division (DND) Ottawa, Ontario

• Automated Space Domain Awareness tasks by developing robust Java back-end components using Mayen and Spring.

 Automated Space Domain Awareness tasks by developing robust Java back-end components using Maven and Spring, and interactive React front-end interfaces built with Vite, optimizing data processing and user experience.

- Collaborated with a multidisciplinary team, utilizing Kafka, Docker, and SQL to implement key features for the Space COP application, enhancing space domain awareness and monitoring capabilities.
- Engaged in **Agile/Scrum** development, contributing to feature enhancements and operational efficiency, while helping onboarding and training new student developers.

Software Engineering Intern

Sep 2022 - Aug 2023

Barracuda Networks LTD

Ottawa, Ontario

- Developed and maintained .NET C# microservices and aggregator services, along with a React front end utilizing TypeScript, and automated workflows and builds using CI/CD pipelines for the Barracuda SMP app.
- Actively participated in planning and decision-making meetings, collaborating with the team to address required changes and assigning tasks based on team members' focus areas.
- Managed and maintained the front-end repository, reviewing pull requests and setting up **workflows** and build actions in **GitHub**, ensuring code quality and adherence to best practices.

Web Developer Intern

May 2022 - Aug 2022

Getit Local Technologies

Ottawa, Ontario

- Developed automated test plans and scripts to identify software issues using **TestFlight** and **Android Studio**.
- Collaborated with engineers to design innovative products for Getit applications, tracking progress with **Jira** and **Git**.
- Built responsive SPAs using **React Native** for mobile and **React** with **JavaScript ES6** for web, enhancing user experience across iOS and Android platforms using **XCode** and **Android Studio**.

Teacher Assistant Jun 2021 – Current

Carleton University

Ottawa. Ontario

- Assisted in web development courses, guiding students through programming labs and workshops using **JavaScript**, **Python**, and **Java**.
- Led weekly labs, workshops, and office hours to help students with web development concepts and code debugging in JavaScript, Python, and Java.
- Collaborated with academic staff to improve course materials and enhance the student learning experience in web technologies.

Projects

Canny Edge Detector | Python

Jan 2024

- Implemented the Canny Edge Detection algorithm, incorporating techniques such as Gaussian blurring, gradient calculation, and edge tracking by hysteresis to identify edges in images.
- Visualized the results on various images with different **sigma** and **threshold** values, demonstrating potential use cases for lane detection technology.

AED Simulation Software $\mid QT C++ \mid$

Dec 2023

- Developed an **AED Simulation** prototype to simulate the critical functionalities of an Automated External Defibrillator (AED), improving user preparedness for cardiac emergencies.
- Designed the system to guide users through heart rhythm analysis, shock administration, and provide real-time support during emergencies.