



# OMAR ABDELHADI

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## Education

### Carleton University

Sep. 2020 – Current

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

Ottawa, Ontario

Expected Graduation: December 2024, Available: May 2024

## Experience

### Software Developer DevOps

Jan 2024 – Current

Department of National Defence

Ottawa, Ontario

- Automated Space Domain Awareness tasks by developing robust **Java** back-end components and interactive **React** front-end interfaces, optimizing data processing and user experience.
- Collaborating in a multidisciplinary team to deliver high-quality software solutions, contributing to the squadron's mission in supporting CAF space domain operations through advanced engineering and development.
- Engaging in **Agile/Scrum** development teams to design and implement features for the Space COP application, enhancing space domain awareness and operational monitoring capabilities.

### Software Engineering Intern

Sep 2022 – Aug 2023

Barracuda Networks LTD

Ottawa, Ontario

- Developed and maintained **.NET C#** micro-services and aggregator services, along with a **React** front end utilizing **TypeScript**, and lastly automating 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 to individuals based on their areas of focus.
- Mainly responsible for managing and maintaining the frontend repository by reviewing pull requests, 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 **AndroidStudio**.
- Collaborated with engineers to design innovative products for Getit applications, tracking progress with **Jira** and **Git**.
- Developed responsive SPAs for mobile using **React Native** and for web using **React** with **JavaScript ES6**, enhancing user experience on both iOS and Android platforms with **XCode** and **Android Studio**.

### Teacher Assistant

Jun 2021 – Current

Carleton University

Ottawa, Ontario

- Teaching Assistant for web development courses in the Department of Computer Science, guiding students through **JavaScript**, **Python**, and **Java** programming labs and workshops.
- Conducting weekly labs, assignment workshops, and private office hours to assist students with web development concepts and code debugging in **JavaScript**, **Python**, and **Java**.
- Collaborating with academic staff to enhance the learning experience in web technologies.

## Projects

### AED Simulation Software | QT C++

Dec 2023

- Developed an AED Simulation prototype to simulate the critical functionalities of an Automated External Defibrillator (AED), enhancing user preparedness for cardiac emergencies.
- Designed the simulation to assist users by guiding them through heart rhythm analysis, administering electric shocks, and providing real-time support during the emergency process.

### Pokemon TCP Server | C

Aug 2021

- Developed a Pokémon search engine with a TCP server infrastructure, enabling clients to request specific search types and receive tailored results.
- Implemented a multi-threaded server to execute efficient searches and prompt delivery of results over a TCP connection.

## Technical Skills

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

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

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

**Databases:** MySQL, MongoDB, Microsoft SQL Server

**Operating Systems:** Linux, Mac, Windows