# Mohammed Arab

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

## Education

**Algonquin College,** Ottawa, Ontario.
➢ Diploma in Computer Programming (CO-OP) (2 years), May 2021 – May 2023
➢ Dean's honor list (minimum 3.6 / 4.0 term GPA) for every academic semester as of January 2023
➢ 3.97 / 4.0 overall GPA as of January 2023

**University of Ottawa,** Ottawa, Ontario.
➢ Bachelor's Degree in Health Sciences (4 years), September 2017 – April 2021
  o Deans Honour List, 2017-2021
  o *Summa Cum Laude*
  o Graduating GPA 9.31 / 10.0

**St. Matthew Catholic High School**, Orleans, Ontario.
➢ Graduated 2017 with Ontario Scholar, Honour Roll and French Immersion Certificate.

## Experience

**Government of Canada, Canadian Heritage** (May 2022 – April 2023)

**Web Application Java Developer**
➢ Worked with a small team to help develop and maintain Java-based web applications dedicated to Canadians.
➢ Responsibilities included: Working on JSF web pages for component based front-end development, in conjunction with Spring framework technologies to code complete web applications in JAVA, writing SQL scripts for database modification, using Maven for project management and Jenkins for deployment automation, developing unit tests using Junit framework, and implementing / maintaining of MVC design pattern.
➢ Work revolved around an open-source Java driven architecture, using Java, Linux, Tomcat, and Apache. Other tools used include Maven for project building and dependency-management, and Jenkins for deployment automation.
➢ Throughout my experience, my team and I migrated our development environment to Microsoft Azure. Therefore, I have experience with Azure for the development and deployment of web applications.
➢ Responsible for upholding WCAG2.1 AA standards with Web Experience Toolkit (WET).
➢ Learned to collaborate well with a team using SVN and Git as revision control systems.
➢ Working with both English and French text to make applications as accessible as possible
➢ Consistent use of debugger tools to fix errors in the web applications.

**Lykka Village** (January 2023 – April 2023)

**Capstone Project – React + Node.js/Express developer**
➢ Helped develop a minimum viable product using MERN stack for Lykka Village to help them deploy their business product as soon as possible.
➢ Technologies included: React + Recoil libraries for front-end development, Node.js + Express for backend development and MongoDB as a database.

**University of Ottawa Microbiology Laboratory** (July 2017-August 2019)

**Laboratory / Research Assistant**
➢ Worked with a team of graduate and post-doctorate students to help them complete their experimental projects.
➢ Conducted an academic research project looking at the effects of mutagenesis of specific mutations on bacteria *Pseudomonas fluorescens*
➢ Completed work while adhering to applicable health and safety regulations and best practices.
➢ WHMIS and lab safety training completed.
➢ Developed experience reading and analyzing scientific articles.
➢ Refined critical thinking and problem-solving skills used in troubleshooting any research error.

- ➢ Sterilized material through autoclave cycles, diluted and plated bacteria for growth, counted bacterial colonies, made different types of mediums on which bacteria grow.
- ➢ Effectively communicated with team to ensure efficient and quick work in order to finish projects under time constraint.
- ➢ Performed calculations to ensure successful dilutions and optimal bacterial growth.
- ➢ Developed time management skills around autoclave cycles.

## Programming-Related Skills

**Programming Languages:** Java, JavaScript / JSX, Python, C#, SQL / PL/SQL, HTML, CSS, PHP, Bash/Shell, Cobol

**Framework / Libraries:** React, React Native, Node.js, Express, ASP.NET, Bootstrap, Spring, JSF, JUnit testing framework

**Database Management Systems:** PostgreSQL, MS Access, MySQL, Microsoft SQL server, Oracle, MongoDB

**Software Tools:** Apache Tomcat, Maven, Jenkins, Git/Github/Gitlab, SVN, Microsoft Azure, Sharepoint, Wireshark, Cisco Packet Tracer, Android Studio, VMWare Workstation

- ➢ Experience with JAVA for development of web, desktop, android and console applications. This includes the use of framework like JSF and Spring for web application development and the use of debugger tools and libraries like Junit for testing. Applications are in private github repositories which could be shared at employer request.
- ➢ Experience with front-end and back-end web development using HTML, CSS, JS as well as libraries like React and frameworks like Node.js + Express with MongoDB as the database of choice. Applications can be viewed at:
  - o https://mohammedarab1.github.io/PersonalWebsite/index.html → Personal portfolio website created using HTML, CSS and JS.
  - o https://thaqalayn-api.web.app/ → Simple React UI to demonstrate one of the endpoints in a REST API I created using Node.js + Express with MongoDB database.
  - o https://mohammedarab1.github.io/deep-sleep-calculator-react/ → Simple React application calculating whether a user gets enough deep sleep.
  - o https://github.com/MohammedArab1/React-Native-Pesticide-Project → Simple calculation mobile app made using react native.
- ➢ Experience with C# in conjunction with ASP.NET for the development of a web application implementing CRUD operations with a MySQL database.
- ➢ Experience collaborating with team members using different revision control systems such as Git and SVN.
- ➢ Created and manipulated well-designed database objects using SQL commands and PL/SQL functionality.
- ➢ Acquired strong technical communication skills used to prepare detailed reports and give effective presentations through academic experience at the University of Ottawa and Algonquin College, along with volunteering experience.

## Additional Qualifications

- ➢ Proficient in English, French and Arabic.
- ➢ Finely honed communication and presentation skills with both supervisors and team members resulting from multiple years of academic, work and volunteer experience.
- ➢ Ability to be a leader whilst learning from team members and listening to their ideas, as demonstrated by leadership roles through work experience and while volunteering, as well as leadership certificate.
- ➢ Refined attention to detail and problem-solving skills resulting from conducting personal and professional projects requiring innovative thinking and creativity for solving.
- ➢ Can work well in a team environment, with experience in conflict resolution.

## Volunteer and Extracurricular Experience

**Ronald McDonald House Charities** (September 2019 – April 2020)

**Family Room Manager**
- ➢ Worked alone or with a partner to manage 2 family rooms in weekly shifts of 5 hours.

- ➢ Provided service and comfort to parents and children in need.
- ➢ Developed a great sense of empathy and professional communication, along with great listening skills.

**Let's talk science** (September 2019 – January 2020)

**Classroom presenter**
- ➢ Performed presentations and fun activities with 6$^{th}$ grade students regarding space exploration to broaden the students' understanding of science and space in particular.
- ➢ Refined communication skills to effectively convey ideas to individuals of all ages, learning how to turn complex ideas into simple concepts.
- ➢ Learned effective presentation techniques for different types of presentations and reports.

**Al-Mahdi Community Center** (October 2018 - Present)

**Meeting Organizer / Sound Manager**
- ➢ Help arrange and consistently attend weekly meetings discussing philosophy / Islamic theology / Islamic living in contemporary society.
- ➢ In charge of running the sound and streaming system during community meetings.
- ➢ Help organize and set-up online book-club for community members.
- ➢ Refined critical thinking skills to understand abstract philosophical notions.
- ➢ Refined management skills to help setup the meetings.
- ➢ Developed sense of leadership and responsibility as an active member of the community.

## Certifications / Training

- ➢ CPR level 'C' certificate
- ➢ First aid certification complete
- ➢ French immersion certificate
- ➢ Tri-Council ethics certificate
- ➢ Leadership certificate level 1

**References available upon request.**