

Omar Abotahoon

Ottawa, Ontario | omarhossam7@yahoo.com

Portfolio: <https://omar-abotahoon.vercel.app/> | LinkedIn: <https://www.linkedin.com/in/omar-abotahoon> | GitHub: <https://github.com/Omar-abt>

WORK EXPERIENCE

Software Developer COOP

Ottawa, ON | Sep 2023 – Dec 2023

Field Effect Software – Cyber Range Development

- Architected and built over **6 different** fast and efficient **REST API endpoints** by collaborating with the design team and front-end developers to service a set of **reports for courses, exercises and student transcripts** on the Cyber Range platform.
- Used **Java** and **Spring** to construct **DTOs (Data Transfer Objects)**, **DAOs (Data Access Objects)** and **backend services** that queried data from a **MySQL database** using **CRUD operations** to create **client/server applications**.
- Developed **responsive** and interactive **full stack** applications for the **Cyber Range Platform** including **frontend** data visualization components and services for data graphs, charts and tables using **React**.
- Crafted a sophisticated **React state pattern system** with custom **hooks** to manage different frontend components.
- Optimized an endpoint by reducing its response time from **35 seconds to 4 seconds**.

Project Manager

Ottawa, ON | Sep 2022 – Apr 2023

Centre for Entrepreneurship and Engineering Design (CEED) – Project Management Office

- Oversaw and managed a **virtual reality padel ball tracking project** throughout its entire lifecycle.
- Facilitated **requirements gathering, risk management and assessment**, developing **design criteria**, producing **prototypes**, and **evaluating project performance**.
- Created an **inclusive** and welcoming **collaboration environment** and **coordinated tasks** with the project clients.

Cloud Infrastructure Engineer COOP

Ottawa, ON | Jan 2022 - Aug 2022

Canada's Centre of Excellence in Next Generation Networks (CENGN) – Cloud Infrastructure

- Engineered a proficient script used to automatically deploy **Hybrid Cloud** environments using **Python**, **YAML**, **Ansible** and **REST APIs**.
- Developed software solutions in a **DevOps** culture using **Scrum Agile** methodology including **sprints**, daily **standups**, and **sprint retrospectives**.
- Deployed containerized microservice applications using **Docker**, **Kubernetes** and **Cloud technologies including OpenStack and AWS**.
- Leveraged the **Atlassian tool set (JIRA, Confluence, BitBucket)** for managing the work progress and collaborating on projects with co-workers.

System Administrator COOP

Ottawa, ON | May 2021 - Aug 2021

Agriculture and Agri-Food Canada (AAFC) – High Performance Computing

- Created a sophisticated **storage management system** using bash scripting.
- Wrote various **automation scripts** and created complex **pipelines** using Bash shell scripting in a Linux environment.
- Implemented the **Software Development Life Cycle** while developing the storage management system.

SKILLS

- **Programming Languages** – (Python, Java, JavaScript, TypeScript, C, SQL, HTML, CSS)
- **Frameworks and Tools** – (React, Spring, Flask, Node.js, Git, Linux, Bootstrap, Junit, Tailwind CSS, REST APIs, Figma, npm, Maven)
- **Cloud Computing & DevOps** – (Azure, AWS, Kubernetes, Docker, Ansible, OpenShift, OpenStack)
- **Project Management** – (Agile/Scrum, Wrike, JIRA, Confluence, Prototyping, Risk Management)
- **Data Analytics and ML** – (NumPy, Pandas, MatLab, Tableau, TensorFlow)
- **Microsoft 365/Office** – (Excel, Word, Powerpoint, OneDrive)

EDUCATION

Bachelor of Software Engineering - (4th year, GPA: 3.75)

Ottawa, ON | Sep 2020 - Dec 2024

University of Ottawa

CERTIFICATIONS

- Azure Fundamentals (AZ-900) – Microsoft Certificate
- CENGN Cloud System Specialist

PROJECTS

LinkedIn Job Scraper - https://github.com/Omar-abt/linkedin_job_scraper

- Technologies used: **Python**, **Flask**, **Selenium**, **Docker**, **Pandas**, **NumPy**, **React**, **TypeScript**

Personal Portfolio Website - <https://omar-abotahoon.vercel.app/>

- Technologies used: **React**, **JavaScript**, **Tailwind CSS**, **Material UI**

Tenzies Game - <https://tenzies-omar-abt.vercel.app/>

- Technologies used: **React**, **JavaScript**, **HTML**, **CSS**

Meteor FC - <https://meteor-fc.vercel.app/>

- Technologies used: **React**, **React Router**, **JavaScript**, **HTML**, **CSS**, **Bootstrap**