Omar Abotahoon

Second-year Bachelor of Applied Science in Software Engineering Student

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Education

University of Ottawa, Ottawa, ON — *Bachelor of Software Engineering*

September 2020 - PRESENT (GPA: 94.4%)

- **Relevant courses:** Programming in Python and Java, Data Structures and Algorithms, Web Development, Software Engineering Practices, Computer Architecture, Product Development and Management for Engineers, and Technical Report Writing.
- Knowledgeable in implementing various concepts such as multi-dimensional lists, linked lists, sets, dictionaries, object-oriented programming, Big O notation, memory allocation, recursion, and reading files/csv documents
- Created **object-oriented** programs in java using concepts such as classes, objects, instance variables, pointers, subclasses, inheritance, polymorphism, and interfaces.

Experience

Agriculture and Agri-Food Canada, Ottawa, ON — *System Administrator (CO-OP Placement)*

May 2021 - August 2021

- Created a sophisticated **storage management system** using bash scripting that searches a cluster of computers for redundant data and compresses, archives or deletes the selected data.
- 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 and used Bash scripting to automate the user account creation process.
- Worked with **Docker containers** and used **Vagrant** to create Vagrantfiles to install and provision VMs automatically.

Microsoft Azure Fundamentals (AZ-900) — *Microsoft Certificate*

July 2021 – September 2021

- Completed a Microsoft Certified Azure Fundamentals course about Azure's various features and uses such as Azure Cloud Deployment and Computing Models, Azure VMs and Containers, Azure Databases, Azure Resource Groups, Azure App Services, and Azure Security.
- Got hands on experience with Azure using quizzes and labs built into the course.

Practical Ethical Hacking — *Udemy Certificate*

- Currently enrolled in an online certificate where I am learning about Kali Linux, penetration testing, scanning, enumeration, and exploitation basics.

Projects

Smart Park – Link: https://smrtpark.github.io

- Worked with a team of 5 members to build and design an **appealing website** for an imaginary car parking service.
- The website was designed using a combination of **HTML, CSS, and JavaScript**, and features **interactive** buttons and a modern navbar.
- Utilized **GitHub** to collaborate on the website with other team members remotely and to act as a repository for the website's source code.

Hard Skills

Python, Java Object-Oriented Programming, Azure, C, HTML, CSS, JavaScript, SQL, Git/GitHub

Docker Containers, Vagrant, and Virtual Machines

Cyber Security fundamentals, Linux, and Kali Linux

Bash, AI, and Deep Learning in TensorFlow

Databases, Algorithms and Data-Structures

Networking Fundamentals

Microsoft Office Suite and Google Workspace

Soft Skills

Problem Solving

Communication and Teamwork

Critical Thinking

Leadership and Initiative

Attention to Detail

Flexibility

Awards and Certificates

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Convolutional Neural Networks in TensorFlow

Microsoft Azure Fundamentals (AZ-900) Certificate

Silver Medal of Academic Excellence - Achieving an academic average of 90% or more in grade 12

First Year $3000 Admission Scholarship - Scholarship awarded for the achievement of a grade 12 average of 90% or more