MOHAMED OMER

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EDUCATION

Carleton University   Ottawa, ON
BSc Computer Science, Minor in Statistics | Dean's List | GPA: 3.81/4.0   Sept 2018 – May 2023

EXPERIENCE

Amazon (AWS)   Vancouver, BC
Software Engineer Intern   May 2021 - Sept 2021

- Expedited **35+ hrs** of dev time by automating the process of updating newly launched AWS Regions & Ec2-Instances
- Developed a Lambda function to create a centralized location for information to be retrieved by other AWS services
- Implemented a S3 Caching Client onto the **Spring Framework** backend to reduce network calls to S3 by **95%**
- Created **4** new filter's using **ReactJS** on the Marketplace UI to save **80+** additional clicks for the users

MicroFocus   Ottawa, ON
Software Engineering Intern (8-month co-op)   Sep 2020 - May 2021

- Automated redundant test cases using **Java** to reduce build and release pipeline times by **25x**
- Designed and Implemented over 8 different components for the dashboard's UI using **ReactJS** and **TypeScript**
- Worked with the Cloud team to automate the API test cases, increasing the CI pipeline flow from **62% to 87%**
- Modified existing API tests to run them in a sanity and regression test suite against cloud

Carleton University: School of Computer Science   Ottawa, ON
Teaching Assistant   Sep 2019 - Dec 2019

- Mentored students in the basics of Object-Oriented Programming in **Java**
- Held weekly office hours and graded assignments/exams for **40+** students

PROJECTS

Charity Base [Node.js, React]   *June 2020*

- Built an application that provides the public information on the activities, locations, and finances of over **74,000+** charities registered in Canada
- Developed an interactive **React** front-end to aggregate real-time charity data

Restaurant Manager [Node.js, MongoDB, Pug, HTML/CSS]   *March 2020*

- Designed a RESTful API in **Node.js** for authorization, order placement, and history tracking
- Built a database to store user profile and order information for each restaurant using **MongoDB**

Home Surveillance System [Python, Tensorflow, Jupyter, Raspberry Pi]   *June 2019*

- Deployed an object-detection program to notify users of unrecognized personnel using a **Raspberry-Pi** and **Python**
- Trained a **TensorFlow R-CNN** model to detect known and unknown faces and implement the object detection application

EXTRACURRICULAR/VOLUNTEER

Carleton Computer Science Society:	Organized team schedules and events for the students.
Open Source Contributor (Github Link):	Bug Fixes | UI Implementations | Re-writing Documentation
Al-Noor Center for Children with Special Needs:	Assisted students to perform tasks to develop their fine motor skills.

AWARDS/CONFERENCES

Top 5 @ RBC Amplify Hackathon:	Oct. 2020	**Canadian Undergraduate Tech Conference:**	July. 2020
Michael Oliver Scholarship:	Jan. 2020	**President's Scholarship @ CarletonU:**	Sept. 2018
1st Place @ Heriot-Watt Hackathon:	Feb. 2018	**2nd Place @ Middlesex Codejam:**	May. 2018