MOHAMED OMER

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EDUCATION

Carleton University   Ottawa, ON
BSc Computer Science, Minor in Philosophy | Dean's List | GPA:3.9/4.0   *Sept 2018 – May 2023*

EXPERIENCE

Amazon - AWS   Vancouver, BC
Software Engineer Intern   *May 2022 - Aug 2022*

- Migrated the Contact-Us page away from a monolith package onto its own standalone page
- Achieved **100%*** up time by adding latency based routing to determine which region is a better host for the customer
- Page built entirely in Native AWS using API Gateway + Lambda + S3 to reduce dependency on external resources
- Introduced wave based deployment by deploying a pipeline with approval workflows, proper bake times and running integration tests at each stage

Morgan Stanley   Montreal, QC
Software Engineer Intern   *Jan 2022 - May 2022*

- Designed and implemented an interactive **AngularJS** dashboard of over **1,000,000+** foreign exchange trades
- Reduced network calls **3x** by implementing caching on the browser side when making calls to the **SQL** database
- Added filters to explore for a specific or a set for trades cutting down the time taken to search for a trade by **83%**

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**
- Collaborated 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 **40+** students on the basics of Object-Oriented Programming in **Java**

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

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

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