

# MOHAMED OMER

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## EDUCATION

### Carleton University

BSc Computer Science, Minor in Philosophy — Dean's List — GPA: 3.9/4.0

Ottawa, ON

Sept 2018 – May 2023

## EXPERIENCE

### Amazon - AWS

Software Engineer

Vancouver, BC

Aug 2023 – Present

- Integrated Amazon Bedrock - GenAI into AWS Marketplace, enabling **6,000+** generative AI products via modular backend, **CDK constructs**, and automated monitoring.
- Spearheaded AWS-wide zero-touch region launch automation, reducing deployment time by **91%** and powering **7** new regions since Nov 2023.
- Migrated **22+** workflows to **AWS Lambda** and **Step Functions** using **AWS Cloudformation**, improving scalability and security for classified environments.
- Retired legacy backend infra to save over **4** engineer-days of operational effort while maintaining seamless customer experience.
- Implemented usage-based **AMI** pricing models, reducing support workload by **2 weeks** per request and unlocking flexible monetization for vendors.

### Amazon - AWS

Software Engineer Intern

Vancouver, BC

May 2022 – Aug 2022

- Led the migration of the Contact-Us page away from a monolith package onto its own standalone page
- Ensured **100%\*** uptime with latency-based routing to select optimal region dynamically.
- Developed entirely on native **AWS stack (API Gateway, Lambda, S3)**, reducing external dependencies.
- Built a secure **CI/CD pipeline** with gated approvals, bake periods, and integration tests for safe production rollouts.

### Morgan Stanley

Software Engineer Intern

Montreal, QC

Jan 2022 – May 2022

- Developed **AngularJS** dashboard for visualizing **1M+ FX** trades with dynamic filters and interactive UI.
- Reduced **SQL** query overhead **3x** by implementing client-side caching mechanisms.
- Cut trade lookup time by **83%** by adding multivariate filters and optimized data retrieval.

### Amazon - AWS

Software Engineer Intern

Vancouver, BC

May 2021 – Sept 2021

- Automated **AWS Region** and **EC2** metadata syncing, saving **35+** developer hours per cycle.
- Created **Lambda** function to serve region data centrally for other AWS services.
- Enhanced backend performance by integrating **S3** caching in **Spring**, cutting S3 calls by **95%**.

### MicroFocus

Software Engineer Intern (8-month co-op)

Ottawa, ON

Sept 2020 – May 2021

- Automated **Java**-based test cases, reducing release pipeline duration by **25x**.
- Collaborated with Cloud QA to cover **API** test cases, increasing **CI** coverage from **62%** to **87%**.

## PROJECTS

**Charity Base [Node.js, React]** : Built and deployed a searchable platform showcasing **75,000+** Canadian charities with real-time info on financials, activities, and geography.

**Home Surveillance System [Python, TensorFlow, Raspberry Pi]** : Created AI-powered face detection system using **TensorFlow R-CNN**; deployed on **Raspberry Pi** to alert users on unrecognized personnel.