

# IBRAHIM MOHAMED

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## EDUCATION

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### Memorial University of Newfoundland

*Bachelor of Science in Computer Science*

- GPA: 3.8

St. John's, NL

*Sep. 2020 – Apr. 2024*

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Java, HTML, CSS, SQL, C

**Frameworks, Cloud and Databases:** Django, AWS, React.js, Node.js, DynamoDB, REST

**Developer Tools:** Git, Github, VSCode, PyCharm, Visual Studio

**Others:** Agile Scrum Development, Data Structures, Web Services

## PROJECTS

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### Distributed Serverless Workflow for Stock Price Movements | *AWS, Python*

Jan 2022 – Feb 2022

- Built a Serverless workflow that sends out an email notification when there is a 3% increase in Tesla's stock price.
- Utilized CloudWatch Events to trigger the workflow by sending a notification to SQS at 1-minute intervals.
- Programmed Lambda function to communicate with Yahoo Finance API and store values in a DynamoDB table.
- Utilized DynamoDB streams to detect updates and trigger a Lambda function to calculate the change in price.
- Programmed a Lambda function paired with SES to send out email notifications when a price change occurs.

### Personal Portfolio Website | *AWS, Python, HTML, CSS, JavaScript*

Oct 2021 – Dec 2021

- Developed a personal portfolio website using HTML, CSS Bootstrap framework, and several JavaScript libraries.
- Improved latency and availability by leveraging CloudFront CDN to cache website content at 225+ edge nodes.
- Programmed Lambda function to invalidate CloudFront's cache when changes occur in the Code Pipeline.
- Utilized Route53 to map CloudFront to the apex domain through alias records providing CNAME-like behavior.

### To Do List | *AWS, Flask, HTML, CSS, JavaScript, SQLite*

Aug 2021 – Sep 2021

- Developed a web-app using the Flask framework in Python that allows users to create their own to-do-lists.
- Optimized performance by hosting the app on Elastic Beanstalk and utilizing auto scaling groups & load balancer.
- Facilitated the connection between the app and the SQLite database by using SQLAlchemy.

## CERTIFICATES & AWARDS

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### AWS Certified Solutions Architect

Oct 2021 – Mar 2022

- Designed solution by using appropriate AWS services and following architectural principles based on requirements.
- Demonstrated the ability to provide implementation guidance to organizations throughout the workload life cycle.
- Designed and implemented resilient, high performing, secure and cost optimized architectures on the AWS Cloud.

### University of Michigan - Using Python to Access Web Data

Aug 2021 – Sep 2021

- Demonstrated the ability to retrieve data from websites and APIs using Python.
- Utilized complex regular expressions to extract data from strings for processing.
- Learned the protocols web browsers use to retrieve documents and web apps.

### John Hopkins University - HTML, CSS and JavaScript for Web Developers

May 2021 – June 2021

- Demonstrated the ability to use HTML, CSS and JavaScript for web development.
- Gained an understanding of Bootstrap's responsive, mobile first fluid grid system.