IBRAHIM MOHAMED

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EDUCATION

Memorial University of Newfoundland   St. John's, NL
Bachelor of Science in Computer Science   *Sep. 2020 – Apr. 2024*
- GPA: 3.8

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML, CSS, SQL, C
Frameworks, Cloud and Databases: Django, AWS, React.js, Node.js, Vue.js, DynamoDB, REST, Docker
Developer Tools: Git, Github, VSCode, PyCharm, Visual Studio, Gitlab
Others: Agile Scrum Development, Data Structures, Web Services

EXPERIENCE

Software Developer   April 2022 – Present
Jewish General Hospital   *Montreal, QC*
- Engineered several functions in complex healthcare apps to anonymize patient information in DICOM data.
- Improved load times by 80% by rebuilding app infrastructure on AWS and following industry best practices.
- Revamped outdated app front-end by using Vue 3 and latest technologies leading to a performance increase of 50%.

PROJECTS

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

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.

Udemy - REST APIs with Flask and Python   Aug 2021 – Sep 2021
- Created secure and reliable REST APIs which include authentication, logging, caching, and more.
- Handled seamless user authentication with advanced features like token refresh.
- Connected web or mobile applications to databases and servers via REST APIs.

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.