

IBRAHIM MOHAMED

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EDUCATION

Memorial University of Newfoundland

Bachelor of Science in Computer Science

- GPA: 3.8

St. John's, NL

Sep. 2020 – Apr. 2024

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML, CSS, SQL, C++

Frameworks, Cloud and Databases: Flask, Django, AWS, React.js, Node.js, Vue.js, DynamoDB, REST, Docker, FastAPI

Developer Tools: Git, Github, VSCode, PyCharm, Visual Studio, Gitlab, DataGrip

Others: Agile Scrum Development, Data Structures, Web Services

EXPERIENCE

Software Developer

Jewish General Hospital

April 2022 – Present

Montreal, QC

- Deployed and configured ML models on AWS, using EC2 accelerated compute instances and Sagemaker.
- Prepared ML models for inference using FastAPI, Nginx, and AWS Load Balancer.
- Developed a REST API to communicate with AWS RDS and many other services.
- Built a user authentication system using AWS Cognito and FastAPI to verify user JWT tokens.
- Engineered several architectural diagrams and led planning of app development and infrastructure design.
- Programmed a web-based DICOM viewer with extreme performance by utilizing Vue3 and CornerstoneJS's robust accelerated image display and multi-threaded image decoding.
- Beta tester for Amazon HealthLake Imaging.

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.

CERTIFICATES & AWARDS

AWS Certified Solutions Architect Professional

Jan 2023 – Present

- Provided expert guidance about architectural design that extends across multiple applications and projects within a complex organization.
- 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.
- Designed solutions on AWS for organizational complexity, and continuously improved existing solutions
- Evaluated cloud application requirements and made architectural recommendations for deployment of applications on AWS.

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.