

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, 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 an unreleased AWS service, attended internal meetings to provide feedback to the AWS team, and led development of demo app to showcase the service at the beta release event.

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

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.