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, 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   April 2022 – Present
Jewish General Hospital   *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 Tracking | *AWS, Python, HTML, CSS, JS*   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.

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.

McGill - Clinical Innovation Competition   April 2023 – May 2023
- Winner of the First Marika Zelenka Roy Innovation Prize
- Developed and built frontend, backend, and cloud resources for CoreSlicer, a cloud-based AI platform.
- Automated the measurement of frailty and body composition from medical images (CT, MRI, ultrasound).
- Collaborated with a multidisciplinary team including medical professionals, developers, data scientists, machine learning engineers, and interface designers.
- Demonstrated expertise in developing and implementing innovative solutions for healthcare applications.
- Empowered clinicians to individualize care for older patients, reducing postoperative complications, adverse events, and emergency readmissions.