IBRAHIM MOHAMED

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EXPERIENCE

Software Engineer — June 2023 – Present
Radical Imaging - Full Time — *Boston, MA*

- Engineered a flexible SaaS DICOM viewer using NestJS and NextJS. This cloud-based viewer effortlessly integrates with diverse workflows, maintaining its core functionality while providing adaptability.
- Developed software solutions to tackle challenges in medical imaging projects, primarily focusing on web development, cloud, and AI.
- Addressed and rectified critical security vulnerabilities within the AWS infrastructure, leading to substantial improvements in security and system integrity.
- Integrated AWS Marketplace into our SaaS offerings, resulting in a remarkable 40% surge in customer acquisition.
- Successfully integrated Pager-Duty for real-time outage monitoring, achieving a notable reduction in system downtime and streamlining issue resolution processes.
- Established validation methods for existing clinical tools in the viewer, streamlining the FDA application process and ensuring compliance with regulatory standards.
- Implemented comprehensive automated testing strategies, leveraging frameworks such as Jest, Cypress, and Playwright, which increased code reliability and reduced debugging time by 30%.
- Designed and executed multiple integrations for our SaaS DICOM viewer, notably with EPIC Electronic Health Records (EHR), NVIDIA's MONAI for AI-enhanced medical imaging, and major cloud services like Amazon HealthImaging, Azure, and Google Cloud Platform (GCP), significantly enhancing the viewer's interoperability and utility in diverse healthcare environments.
- Core maintainer of Cornerstone3D (https://www.cornerstonejs.org/) and Open Health Imaging Foundation OHIF (https://ohif.org/)

Software Engineer — June 2023 – August 2023
Grafana Labs - Internship — *New York, NY*

- Designed and implemented an admin page for managing feature toggles, allowing users to toggle features independently, enhancing user autonomy, and reducing support load.
- Contributed to significantly reducing user reliance on support by facilitating direct visibility into active feature toggles on their Grafana instance.
- Authored comprehensive design documents detailing the new feature's functionality, architecture, and user flow.
- Gained hands-on experience with Golang, integrating backend API endpoints, and utilized React/TS for front-end components, ensuring responsive and dynamic UI/UX.

Software Engineer — April 2022 – June 2023
Jewish General Hospital - Full Time — *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.
- 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.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML, CSS, SQL, C++
Frameworks, Cloud and Databases: Flask, Django, AWS, Azure, GCP ReactJS, NodeJS, VueJS, DynamoDB, REST, Docker, FastAPI, NestJS, NextJS, Cypress, PlayWright, Jest, Percy, Pytorch
Developer Tools: Git, Github, VSCode, PyCharm, Visual Studio, Gitlab, DataGrip

EDUCATION

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

CERTIFICATES & AWARDS

AWS Certified Solutions Architect Professional — Jan 2023 – Present