

IBRAHIM MOHAMED

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EDUCATION

Memorial University of Newfoundland

Bachelor of Science in Computer Science

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, NestJS, NextJS

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

Others: Agile Scrum Development, Data Structures, Web Services

EXPERIENCE

Software Engineer

June 2023 – Present

Radical Imaging

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.

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 – 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.

CERTIFICATES & AWARDS

AWS Certified Solutions Architect Professional

Jan 2023 – Present