

IBRAHIM MOHAMED

Toronto, Ontario | +1 (709)-763-6855 | ibrahim.mdev@gmail.com | [LinkedIn](#) | [GitHub](#) | [GitLab](#) | [Portfolio](#)

EXPERIENCE

New Lantern

San Francisco, CA

Software Engineer

March 2025 – Present

- Leading the evolution of New Lantern's imaging viewer and product roadmap.
- Architected and shipped a production-grade mammography module, advanced measurement toolkit, BI-RADS compliant structured reporting, and radiologist-centric workflow
- Pioneered a complete frontend performance overhaul, slashing first-pixel load from 1.8s to ≤ 100 ms, making New Lantern the fastest imaging viewer on the market
- Led a large-scale refactor of the viewer's architecture, introducing clean separation of concerns, modular builds, and scalable design patterns to dramatically reduce technical debt and improve maintainability.
- Served as the go-to expert for DICOM and medical imaging, contributing deep knowledge in image decoding, rendering optimization, and diagnostic workflow support across the platform
- Established structured project planning processes, including ticket breakdowns, estimates, and milestones, transforming engineering throughput and visibility.

Radical Imaging

Boston, MA

Lead Software Engineer

June 2023 – March 2025

- Leading the team of engineers behind the flexible SaaS DICOM viewer FlexView.
- 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 surge in customer acquisition.
- 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.
- Engineered multiple integrations for our SaaS DICOM viewer, notably with EPIC EHR, NVIDIA's MONAI for AI-enhanced medical imaging, and major cloud services, enhancing interoperability and utility in healthcare.
- Core maintainer of Cornerstone3D (<https://www.cornerstonejs.org/>) and Open Health Imaging Foundation OHIF (<https://ohif.org/>).

Jewish General Hospital

Montreal, QC

Software Engineer

April 2022 – June 2023

- 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.

Grafana Labs

New York, NY

Software Engineer

Jan 2022 – April 2022

- 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.

TECHNICAL SKILLS

Language/Tools: Python, JavaScript, TypeScript, Java, HTML, CSS, SQL, C++, Django, AWS, Azure, GCP, React, Node, Vue, DynamoDB, REST, Docker, FastAPI, NestJS, NextJS, Cypress, Playwright, Jest, Percy, Pytorch

EDUCATION

Memorial University of Newfoundland

St. John's, NL

Bachelor of Science in Computer Science

Sep. 2020 – Apr. 2024

CERTIFICATES & AWARDS

IDesign - Architect's Master Class

July 2024 – Present

AWS Certified Solutions Architect Professional

Jan 2023 – Present