IBRAHIM MOHAMED

3801-15 Iceboat Terrace, Toronto, Ontario M5V 4A5
+1 (709)-763-6855 | ibrahim.mdev@gmail.com | [LinkedIn](#) | [GitHub](#) | [GitLab](#) | [Portfolio](#)

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, 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*
  - Developed software solutions to tackle challenges in medical imaging projects, primarily focusing on web development, cloud, and AI.
  - Implemented comprehensive automated testing strategies, leveraging frameworks such as Jest, Cypress, and Playwright, which increased code reliability and reduced debugging time by 30%.
  - 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.
  - Established validation methods for existing clinical tools in the viewer, streamlining the FDA application process and ensuring compliance with regulatory standards.
  - Addressed and rectified critical security vulnerabilities within the AWS infrastructure, leading to substantial improvements in security and system integrity.

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.
  - Beta tester for Amazon HealthLake Imaging.

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.

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.