

Michael Getu Muluneh.

SOFTWARE ENGINEER • FULLSTACK • AI/ML • DEVOPS

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Fullstack engineer who ships end to end: React and Next.js frontends, Python and Node backends, production computer-vision models, and the Docker/Kubernetes infrastructure underneath. Maintainer of Galio, an open-source React Native framework; 1,000+ GitHub contributions in the past year.

01 / EXPERIENCE

JUL 2025 – PRESENT
ZEMENAY TECH
ADDIS ABABA

Fullstack Developer • DevOps Manager

- Maintain and develop **Galio**, an open-source React Native UI framework (MIT), leading its TypeScript-first modernization of components and cross-platform templates
- Built the framework's documentation site (Docusaurus) with live component demos and guides used by its community

Frontend Developer

- Built the UI for a school enrollment platform, from Figma design to production React with Tailwind CSS

02 / SELECTED WORK

AI / CLINICAL
PYTHON • FASTAPI
PYTORCH • K8S

MediScan: Clinical Decision Support

- Chest X-ray platform on a multi-model ensemble (YOLOv12m + EfficientNet-Bo + Lungmask U-Net) detecting **15 lung-disease classes** with confidence scores and Grad-CAM heatmaps
- Full clinical workflow: radiologist markup, automated PDF reports, RBAC, 2FA, AES-256 encryption, audit logs; deployed on Kubernetes with Prometheus and Celery

AI / WEB
NEXT.JS • ONNX
WASM

BGRemove: In-Browser Background Removal

- AI background removal running **100% client-side** (MODNet via transformers.js): no server, no uploads, no data leaving the device

REALTIME / DIST.
REACT • NODE
WEBSOCKETS

Multi-User Distributed Text Editor

- Google-Docs-style collaborative editor built as microservices: API gateway with separate auth, document, and WebSocket collaboration services

MOBILE
REACT NATIVE
FIREBASE

EV Repair Network

- Cross-platform app for locating certified EV repair workshops on a full Firebase backend (Firestore, Auth, Functions, Messaging), multi-language

03 / STACK

LANGUAGES
FRONTEND / MOBILE
BACKEND
AI / ML
DEVOPS

TypeScript, JavaScript, Python, SQL, Dart, C++, Java
React, Next.js, React Native, Expo, Redux, Tailwind CSS
Node.js, FastAPI, PostgreSQL, Firebase, WebSockets
PyTorch, Ultralytics YOLO, ONNX, transformers.js, computer vision
Docker, Kubernetes, GitHub Actions, Prometheus, Celery, Linux

04 / EDUCATION

2026
AASTU

B.Sc. in Software Engineering

Addis Ababa Science and Technology University • English (professional) • Amharic (native)