Michael Getu Muluneh.

STAFF ENGINEER | DEVOPS | FULLSTACK | AI/ML | MOBILE | AEO

7 YEARS EXPERIENCE | 3,200+ GALIO STARS | 1,000+ CONTRIBUTIONS | 15+ PRODUCTS SHIPPED

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github.com/MichaelGetu-git | linkedin.com/in/michael-getu | michaelgetu.vercel.app | English (Fluent), Amharic (Native)

Staff-level engineer with 7 years of progressive experience (2019 to present) driving technical strategy and organizational impact. React, Next.js and React Native on the front; Python (FastAPI) and Node.js services behind them; production computer-vision models and RAG-based AI workflow automation; and the Kubernetes, Docker and AWS infrastructure they run on. Staff DevOps Engineer at Zemenay Tech, setting infrastructure strategy for 6 product teams. Core maintainer of Galio, a 3,200-star open-source React Native framework. Builds for search and answer-engine discoverability (AEO) as well as for users; 1,000+ GitHub contributions in the past year. Now training and evaluating frontier AI coding models at DataCurve (Shipd) and G2i.

PROFESSIONAL EXPERIENCE 01

Core Developer, AI Model Training | DataCurve (Shipd) | Remote | August 2026 - Present

- Build hard, real-world coding tasks used to **train and evaluate state-of-the-art AI coding models**, each with a prompt, a hidden test suite and a reference solution patch.
- Write behavior-based tests that catch **false positives**, and tune each task's difficulty and pass rate against real agent runs.

AI Training Engineer, SWE Human Evals | G2i | Remote | September 2026 - Present

- Evaluate **frontier AI coding models** for AI lab clients: check AI-written PR descriptions against the real diff and rank competing code patches for quality, with feedback that feeds into model training.
- Score how coding agents handle unclear requests: which clarifying questions matter, when to ask them, and how rollouts rate on a rubric.

Staff DevOps Engineer and Fullstack Lead | Zemenay Tech | Addis Ababa, Ethiopia | June 2024 - Present

- Set container platform strategy and defined deployment guardrails for 6 product teams using **Kubernetes (EKS)**, **Terraform** and **ArgoCD (GitOps)**, reducing environment drift by 70% and cutting time-to-production for new services from weeks to hours.
- Authored architecture design RFCs for AWS infrastructure standardization, adopted across all engineering teams, reducing cloud costs by 25% through spot instance optimization and auto-scaling.
- Led cross-team alignment on CI/CD pipelines using **GitHub Actions**, establishing release management standards and automated test gates that reduced deployment failure rate by 60%.
- Established the platform's **incident response** practice on **SRE** principles: Prometheus alerting, runbooks and post-incident review, and own the infrastructure **engineering roadmap** and capacity planning across the 6 teams.
- Developed **zemenaytech.com**, a Next.js recruitment and Employer of Record (EOR) platform serving clients across Africa and Europe: pricing, payroll, hire-by-tech-stack and regional hiring guides.
- Architected the ingest and retrieval layers of an AI recruitment pipeline: a **Retrieval Augmented Generation (RAG)** system using **LangChain** and vector search, grounded in role and company context, evaluating live interview responses and reducing time-to-hire by 40%.
- Shipped real-time social features for **Leana** in React Native against Node.js backends with live chat over WebSockets, serving 50,000+ monthly active users.
- Launched **EV Repair Finder**, a cross-platform React Native app with maps and navigation connecting drivers to EV garages across Europe, released on iOS and Android.

Senior Software Developer | Efuyegela Tech | Addis Ababa, Ethiopia | June 2025 - June 2026

- Engineered **BGRemove**, an AI background removal tool running **100% client-side** in Next.js using transformers.js and WebAssembly: no server uploads, no data leaving the device.
- Established technical SEO and AEO practices for the company's main site and subdomains, ensuring content is discoverable by both search engines and AI assistants.

SEO/AEO Lead and Fullstack Engineer | Instamobile | Remote | March 2023 - June 2025

- Owned SEO strategy for a portfolio of mobile apps, CMS panels and developer blogs in the React Native ecosystem, increasing organic traffic by **200% YoY** and growing monthly readership to 100,000+.
- Structured content for answer engines using **JSON-LD entities**, knowledge graph markup and featured snippet targeting, making it quotable by AI assistants and eligible for Google's AI Overviews.

Senior Fullstack Engineer, Consulting Practice | Remote / Contract | 2022 - 2025

- Delivered **15+ web and mobile products** for clients across fintech, healthcare and logistics: React and Next.js frontends, React Native apps, and Node.js, FastAPI and Firebase backends.
- Owned each engagement end to end: scoping, architecture, estimation, development, deployment and handover.
- Clients included African startups and European SMEs; average client satisfaction score of 4.8/5.

Frontend Developer | Alpha Tech | Addis Ababa, Ethiopia | February 2020 - June 2023

- Implemented the user interface for a school enrollment platform serving **50+ schools** and **10,000+ student records**, from Figma design to production React with Tailwind CSS, reducing enrollment processing time by 40%.
- Introduced React Native to the organization, delivering its first mobile application and the reusable component patterns later teams built on.

- Mentored 3 junior developers through code review and pair programming.

Junior Software Engineer | Pan African Tech | Addis Ababa, Ethiopia | September 2019 - January 2020

- Built ERP systems and backend services in **Node.js and Python**, the first production code shipped in a professional team.

SELECTED PROJECTS 02

MediScan: Clinical Decision Support Platform | Python | FastAPI | PyTorch | Kubernetes

- Chest X-ray platform on a multi-model ensemble (YOLOv12m, EfficientNet-B0 and a Lungmask U-Net) detecting **15 lung-disease classes** with confidence scores and Grad-CAM heatmaps for explainability.
- Architected the full clinical workflow: radiologist markup, automated PDF reports, RBAC, 2FA, AES-256 encryption and audit logging; deployed on Kubernetes with Prometheus monitoring and Celery for distributed task processing.
- Runs on **AWS** with **VPC** network isolation and least-privilege **IAM** roles; inference and clinical-workflow services covered by **pytest** unit and integration suites with **Playwright** end-to-end coverage.
- Reached **94% accuracy** on the validation set, ahead of single-model approaches by 12 points.

Multi-User Distributed Text Editor | React | Node.js | WebSockets | Microservices

- Google-Docs-style collaborative editor built as microservices: an API gateway fronting separate auth, document and WebSocket collaboration services.
- Supports **50+ concurrent users per document** with operational transformation for conflict resolution, with **Jest** unit and integration tests across the services and **Playwright** end-to-end tests covering multi-client editing sessions.

Lead Intelligence Pipeline | Node.js | OpenStreetMap | IMAP | Public APIs

- Reconciles OpenStreetMap, Google Maps and eight job boards - differing schemas, coverage and reliability - into one deduplicated, scored dataset of **5,000+ contacts across 20+ countries**.
- Replaced a paid API with public data and a custom crawler, taking cost per record to $0.

Outreach System with Deliverability Analytics | Chrome Extension MV3 | IMAP | cPanel API

- Chrome extension sending segment-routed email through Gmail's compose window, no API keys or SMTP; a pre-flight check **caught 499 of 500 rows** that would have sent malformed.
- Reply and bounce detection via IMAP, cPanel API delivery-log ingestion, and a dashboard reporting per-sending-domain deliverability.

TECHNICAL SKILLS 03

LANGUAGES: TypeScript, JavaScript, Python, SQL, Dart, Bash, HTML5, CSS3

FRONTEND: React, Next.js, App Router, Server Components, SSR, SSG, Redux, Tailwind CSS, WebAssembly, Responsive Design, Accessibility

MOBILE: React Native, Expo, **Galio Framework**, iOS, Android, Cross-Platform Development, Push Notifications, FCM, Offline Sync, Maps & Navigation, Mobile Performance

BACKEND: Node.js, FastAPI, Express, REST APIs, WebSockets, Socket.io, Microservices, API Gateway, PostgreSQL, Firebase, Firestore, Celery, Pandas, Distributed Systems

AI & ML: PyTorch, Ultralytics YOLO, EfficientNet, U-Net, ONNX, Hugging Face, transformers.js, Computer Vision, Deep Learning, Grad-CAM, **RAG**, **LangChain**, Vector Databases, LLMs, Fine-tuning, Prompt Engineering, Model Deployment, **AI Model Training**, **LLM Evaluation**, RLHF Data, Benchmark Task Design

DEVOPS & CLOUD: **Docker**, **Kubernetes (EKS)**, **AWS**, **AWS VPC**, **AWS IAM**, **Terraform**, **ArgoCD**, **GitOps**, CI/CD, GitHub Actions, Prometheus, Grafana, Linux, Monitoring, Observability, Infrastructure as Code, **Site Reliability Engineering (SRE)**, **Incident Response**, On-Call, Runbooks, Post-Incident Review

TESTING: **Playwright**, **Jest**, **pytest**, **Automated Testing**, **Unit Testing**, **Integration Testing**, **End-to-End Testing**, API Testing, Test Coverage, CI Test Automation, Regression Testing

SECURITY: RBAC, 2FA, AES-256, Audit Logging, Authentication, Authorization, OAuth2, JWT

SEO & AEO: Technical SEO, Local SEO, **Answer Engine Optimization (AEO)**, Schema.org, JSON-LD, Knowledge Graphs, Featured Snippets, Core Web Vitals, GA4, Search Console, Ahrefs, SEMrush

PRACTICES: System Design, Software Architecture, Code Review, Technical Writing, RFCs/ADRs, **Engineering Roadmap**, **Capacity Planning**, Agile, Scrum, Mentoring, Remote Teams

OPEN SOURCE AND COMMUNITY 04

Core Maintainer | Galio Framework (Open Source) | Remote | 2025 - Present

- Core maintainer of **Galio**, an MIT-licensed React Native UI framework with **3,200+ GitHub stars** and 325 forks.
- Led the TypeScript-first modernization of 40+ components and cross-platform templates, improving type safety and developer experience.
- Rewrote the documentation site in Docusaurus with live component demos and restructured it for search discoverability; regular issue triage, PR review and community support.
- Speaker at developer meetups on React Native architecture, Galio and AI integration since 2024; mentor to junior developers.

EDUCATION, CERTIFICATIONS AND AWARDS 05

Bachelor of Science in Software Engineering, Honors | Addis Ababa Science and Technology University (AASTU) | June 2026

- **Outstanding Full Stack Developer** | Honorary Award, Software Engineering Club, AASTU | 2025
- **Hackathon Project Award** | Zemenay Tech | 2026