Yeabsira A.

Full-Stack Software Engineer | AWS Cloud | AI/ML
yeabalex18@gmail.com
GitHub | **Linkedin** | **Portfolio**

Education

HiLCoE School of Computer Science and Technology Addis Ababa, Ethiopia
Software Engineering Bachelors

Experience

Self-Employed | Freelance Full-Stack Developer Remote (US) | Mar 2026 - Present

* Delivered custom web and mobile apps for private clients, handling everything from initial system design to production deployment.

Calidar *AI Nutrition & Fitness iOS App*

* Built an iOS app that uses LiDAR depth sensing to estimate meal portions (~90% accuracy), passing scan data to Google Gemini 2.5 to generate nutritional breakdowns.
* Built the cloud backend and integrated RevenueCat to handle mobile subscriptions, tier gating, and receipt validation.

Zemene Tewahedo *Online Tutoring Marketplace Platform*

* Built a tutoring platform from scratch using Next.js, NestJS, PostgreSQL, and Prisma across 5 user roles (students, parents, tutors, children, admins) with calendar booking and conflict prevention.
* Added live in-browser video classrooms via Jitsi Meet with signed JWT host controls, plus a QR-to-mobile onboarding flow that parses tutor IDs using OCR and Base45.
* Set up Stripe for checkout, automated booking confirmations, and 70/30 tutor payout splits, alongside in-app messaging and bilingual email notifications (English & Amharic).
* Deployed the entire production environment to AWS (EC2, VPC, S3) using Terraform, Docker Compose, GitHub Actions, and Caddy for auto SSL.

ICog Labs | AI/ML Engineer and Research Intern Addis Ababa, Ethiopia | Aug 2025 - Jan 2026

- Developed and deployed ML models including YOLO-based object detection, CNNs, RNNs, and RAG systems.
- Built and deployed full-stack AI applications using FastAPI and React, integrating ML models into production.

Crossroads Tech Solutions | SWE Intern Addis Ababa, Ethiopia | April 2025 - July 2025

- Optimized backend systems for a high-traffic marketplace platform, improving API response times by 35% and infrastructure stability.
- Implemented and debugged Santim Pay payment gateway integrations within the current infrastructure.

Skills

Programming Languages:	Typescript, Javascript, Python, C++
Libraries/Frameworks:	Next.js, Express.js, React.js, Tailwind CSS, Apollo Server, GraphQL, LangChain, NestJS, Tensorflow, React Native
Tools / Platforms:	AWS, Docker, Git, Kaggle, Terraform, Github Actions
Databases:	MongoDB, PostgreSQL, Neo4j, Chroma DB

Projects / Open-Source

PAZA AI | Link *FastAPI, React 19, PostgreSQL, Redis, AWS, Terraform*

- Built a full-stack Event Discovery & Ticketing Platform featuring automated social-media ingestion pipelines (Whisper STT + LLMs), dynamic QR ticketing, deployed on AWS via Docker and Terraform.

KSTM AI | Link *LangChain, Neo4j, Nest.Js, AWS, Python, Redis*

- Architected and developed a subscription-based SaaS enabling users to generate custom RAG-driven large language models from PDFs, CSVs, URLs, and JSON data.

Certifications

- Advanced Learning Algorithm - **DeepLearning.AI**
- AWS Certified Cloud Practitioner - **Amazon Web Services**