Natnael Alemayehu

Fullstack Engineer — React/Next.js & AWS Cloud Infrastructure

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SUMMARY

Fullstack engineer with production experience across the stack React/Next.js front ends and Go/Python backends, deployed and operated on AWS (Lambda, API Gateway, CloudFront, IAM/VPC, EC2, S3, RDS). Comfortable owning a feature end-to-end, from a responsive UI to the serverless APIs and cloud infrastructure behind it. Strong background in microservice architecture, data-driven domain oriented design , event-driven systems, and CI/CD.

SKILLS

Frontend: React, Next.js, TypeScript, JavaScript (ES6+), Tailwind CSS, HTML5/CSS3, Responsive & Mobile-First Design

Cloud / AWS: Lambda, API Gateway, CloudFront, IAM, VPC, EC2, S3, RDS

Backend: Go, Python, REST APIs, Microservice Architecture, Kafka, RabbitMQ / AMQP

DevOps & Tools: Docker, Kubernetes, GitHub Actions, CircleCI, Git, Nginx, Let's Encrypt/SSL, Oracle Cloud Infrastructure (OCI)

EXPERIENCE

Discourse Community Platform Deployment — *Client Project* July 2026 - Present

- Deployed and configured Discourse (Ruby on Rails community forum platform) to production on Oracle Cloud Infrastructure (OCI), using Docker/Docker Compose for a containerized, reproducible deployment.
- Set up Nginx reverse proxy with Let's Encrypt SSL/TLS, DNS configuration, and network security hardening (firewalls/security lists) to secure the public-facing instance.
- Configured backing services (PostgreSQL, Redis) and SMTP integration for transactional email, plus automated backups and ongoing monitoring to keep the platform reliable.

Freight In Time — *Freelance Project* Feb 2025 – May 2026

- Designed and built the backend for a proof-of-delivery system for the Ethiopian Pharmaceutical Supply Service (EPSS) as part of a two-person backend team, structured as three microservices: Core (business logic), Auth (authentication/authorization), and Async Messaging (Kafka-based event-driven communication).
- Provisioned and managed the system's deployed on AWS infrastructure, including Kafka for event-driven processing, API Gateway for service endpoints.
- Worked closely with an intermediary company and technical consultant to ensure project oversight, successful integration, and alignment with stakeholder requirements.

ISADE Ethiopia — *Freelance Project* May 2026 – June 2026

- Built the official ISADE Ethiopia website as a React single-page application — a responsive, multilingual platform presenting the organization's mission, programs, publications, news, and events.
- Partnered directly with the client to gather requirements, translate organizational goals into a professional digital presence, and deliver ongoing enhancements, content updates, and technical support.
- Implemented SEO strategies and mobile-first responsive design to improve accessibility and reach across devices.

Phase 2 Growth — *Data Science* Dec 2023 – May 2024

- Built and hosted data solutions using Python and Flask, ensuring reliable remote accessibility and performance.
- Collaborated fully remotely with weekly syncs with the direct manager to keep project scope and progress aligned.
- Built a Power BI dashboard tailored to the client's reporting needs.

PROJECTS

Ethiopian Logistics Tracking Platform — github.com/Natnael-Alemayehu/logistics

- Offline-first logistics tracking and proof-of-delivery platform for the Ethiopian trucking market: a Go backend (PostgreSQL/PostGIS, Redis, WebSockets) serving a Next.js dispatcher dashboard and customer tracking portal, plus a React Native driver app with offline sync and conflict resolution. *Tech: Go, Next.js 16, React 19, TypeScript, PostgreSQL/PostGIS, Redis, AWS S3, Docker, WebSockets, React Native/Expo*

Grapton — github.com/natnael-alemayehu/grapton

- Go-based RSS aggregation service that ingests and normalizes external feeds, persists feed/post data, and exposes a RESTful API for feed, post, and user management. *Tech: Go, PostgreSQL, sqlc, RSS parsing, background scraping workers*

EDUCATION

Addis Ababa University — *B.S. Software Engineering* Sep 2018 – Aug 2023

- Graduated with Distinction. Capstone: designed and built an online learning platform for the Ethiopian market (Skillshare-inspired), enabling instructors to publish courses and learners to access content. Built on a full JavaScript stack with PostgreSQL.

CERTIFICATIONS

AWS Course — Boot.dev *(In Progress)*

AWS Cloud Practitioner — Credly (2025)

ALX Data Science Professional Certification — Certificate (Jul 2023 – Aug 2024)