

Estifanos Ameha Mekonnen *Software Engineer*

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Profile Summary

Backend Software Engineer with 2+ years building production APIs and microservices in **NestJS**, **Go (Gin)**, **PostgreSQL**, and **MongoDB**. Specialized in healthcare and fintech applications with Clean Architecture, Docker containerization, and LLM integration. Collaborated with cross-functional web and mobile teams to deliver 6+ scalable systems.

Professional Experience

Software Engineer

01/2025 – 10/2025 | Adama, Ethiopia

A2SV - Africa to Silicon Valley

Non-profit backed by Google and Bloomberg, training 1000+ African students with alumni at Google, Meta, Amazon, Palantir.

- Solved **700+** algorithmic challenges on LeetCode and Codeforces, mastering data structures and algorithms through intensive practice.
- Conducted **30+ peer code reviews** and pair programming sessions, providing feedback on system design patterns, algorithm optimization, and Clean Architecture implementation.
- Collaborated with **30+** software engineers in intensive algorithm sprints, enhancing technical interview preparation and group problem-solving skills.

Backend Developer

06/2025 – 09/2025 | Adama Ethiopia

Eskalate

- Designed RemedyMate backend using **Go (Gin)** and **MongoDB** with **Clean Architecture**, contributing 7,200+ lines in 24 commits within a 14-member team.
- Integrated **LLM-powered** health recommendations with RESTful APIs, authentication, error handling, and data validation.
- Coordinated cross-platform API integration with mobile and web teams via GitHub Projects and Pull Requests.

Backend Developer Intern

06/2024 – 09/2024 | Addis Ababa, Ethiopia

1888 EC

- Contributed to backend development of **LinkPharm**, Ethiopia's B2B pharmaceutical marketplace with **500+ downloads**, connecting pharmacies with manufacturers and suppliers.
- Worked with **NestJS**, **Drizzle ORM**, **PostgreSQL**, and **TypeScript** in a venture studio environment, gaining hands-on experience with **Docker** to ensure secure, reliable, and efficient backend services.

Software Engineer - Backend Specialization

10/2023 – 11/2024 | Remote

ALX Africa

- Implemented **20+ systems programming projects** in C including custom Unix shell (handling 50+ built-in commands), memory allocator, printf function, and simple shell with process management.
- Engineered and deployed **10+ backend applications** including AirBnB clone, designing **30+ RESTful API endpoints** using Flask, MySQL/PostgreSQL with authentication and data validation.
- Automated **web infrastructure** with **Nginx**, **Puppet**, and **HAProxy**, reducing deployment time and improving reliability.

Projects

RemedyMate | Github

AI-Powered Health Assistant

- Developed **10+ RESTful APIs** leveraging Go (Gin) alongside MongoDB with **Clean Architecture**, enabling scalable 4-layer backend services.
- Integrated **Google Gemini LLM** for bilingual (English/Amharic), culturally aware health insights with offline access.
- Designed comprehensive endpoints managing **4 core modules**: health topics, red flag detection, user feedback, and conversation analytics.

Nutri-Focus | Live Demo

AI-Assisted Ethiopian Nutritional Guide

- Architected and deployed a microservices system (Frontend, Backend, ML) using **Docker** and **CI/CD** on **AWS ECR/EC2**.
- Developed a **REST API** with **60+ endpoints** and a real-time notification system.
- Integrated an **ML service** via FastAPI for personalized nutrition, powering a database of **355+** Ethiopian dishes and tailored meal plans.

Personal Financial Management System | Github

- Delivered a full-stack financial app with AI insights using Next.js, NestJS, PostgreSQL, Drizzle ORM and **Google Gemini**, supporting **59 API endpoints** and **367 automated tests**.
- Engineered an AI financial assistant powered by **Gemini 1.5 Flash**, featuring multi-turn dialogue, **anomaly detection**, **caching**, and **rate limiting** with <2 s responses.
- Implementing **JWT**, **OAuth 2.0**, **RBAC**, **Redis**, and **Docker** for secure deployment.

Skills & Technologies

- Programming Languages:** TypeScript (Advanced), JavaScript (Advanced), Python (Intermediate), Go (Intermediate)
- Frameworks/Libraries:** NestJS (Advanced), Next.js (Advanced), Gin (Intermediate), React.js (Intermediate), Express.js (Intermediate)
- Databases:** PostgreSQL (Advanced), MongoDB (Intermediate), MySQL (Intermediate)
- Tools/DevOps:** Docker (Advanced), Git/GitHub (Advanced), Swagger (Advanced), Drizzle ORM (Advanced)
- Methodologies:** Clean Architecture, Agile Development, REST API Design

Education

B.Sc. in Software Engineering

07/2021 – 06/2025 | Adama, Ethiopia

Adama Science & Technology University

Ethiopia's specialized Science and Technology University and nationally designated Center of Excellence.

CGPA 3.73

Achievements & Certifications

• ALX Software Engineering

• ALX AICE - AI Career Essentials

• Founder Academy, ALX Ventures