

# ESTIFANOS KEBEDE

## Backend & Full-Stack Engineer

@ <mailto:estifkebe08@gmail.com>

📞 tel: +251 991 076 154

📍 Addis Ababa, Ethiopia

🌐 <https://linkedin.com/in/estifanos-kebede>

🐙 <https://github.com/Estifanos58>

## ABOUT ME

Backend and Full-Stack Engineer focused on designing scalable distributed systems and high-performance applications. Experienced in microservices architectures, event-driven systems, and real-time applications using technologies such as NestJS, Spring Boot, Kafka, and GraphQL.

I approach engineering with a strong systems mindset—prioritizing performance, reliability, and clean architecture—while building production-ready solutions with measurable impact.

## SKILLS

Java TypeScript Python NestJS Spring Boot Next.js React GraphQL gRPC Kafka WebSocket  
PostgreSQL MongoDB Redis Qdrant Docker TailwindCSS

## EXPERIENCE

### Remote Full-Stack Developer

#### Mo Business PLC

📅 Sep 2025 – Present

📍 Remote

- Architecting and developing scalable full-stack applications using React, NestJS, and MongoDB.
- Designed modular backend services and reusable frontend components improving maintainability.
- Collaborated on system design, deployment pipelines, and feature delivery in a distributed team.

### Software Engineering Intern

#### Tewanay Engineering PLC

📅 Jun 2025 – Oct 2025

📍 Addis Ababa

- Developed internal tools using React and Node.js to streamline workflows.
- Improved application reliability through debugging and performance optimizations.
- Assisted in API integration and feature delivery with senior engineers.

## PROJECTS

### AI Learning Platform (Microservices Backend)

#### Java, Python, gRPC, Kafka, PostgreSQL, Redis

📅 2024

📍 Backend Engineer / Architect

- Designed a distributed microservices system (7 services) with gRPC-based internal communication and API Gateway.
- Built event-driven pipelines using Kafka enabling decoupled scalability and asynchronous processing.
- Implemented RAG pipeline using vector search (Qdrant) for AI-powered retrieval and generation.
- Applied per-service database design improving schema isolation and system resilience.

### SocialHub Backend (GraphQL Platform)

#### NestJS, GraphQL, PostgreSQL, Redis

📅 2025

📍 Backend Engineer

- Developed a full-featured social platform backend with GraphQL APIs and real-time subscriptions.
- Modeled complex relational data (users, posts, chat, reactions) using Prisma ORM.
- Implemented Redis Pub/Sub for scalable real-time event delivery across instances.
- Designed modular architecture with CQRS-inspired patterns for maintainability.

---

## AI Learning Platform UI

[Next.js](#), [TypeScript](#), [WebSocket](#), [SSE](#)

📅 2026

📍 Frontend Engineer

- Built a production-style AI workspace with real-time chat and streaming responses.
  - Implemented hybrid communication using WebSocket (realtime) and SSE (AI streaming).
  - Designed gateway abstraction layer for API interaction and mock-based development.
  - Structured application using modern Next.js App Router and server/client components.
- 

## Multiplayer Real-Time Card Game

[Node.js](#), [Socket.IO](#), [Redis](#)

📅 2024

📍 Full-Stack Developer

- Built a low-latency multiplayer system with real-time synchronization using WebSocket.
- Used Redis as a state store enabling fast reads/writes and session persistence.
- Designed event-driven game engine separating rule logic from transport layer.
- Achieved ~50ms average round-trip latency with scalable room-based architecture.

## EDUCATION

---

B.Sc. Electrical and Computer Engineering

[Addis Ababa University](#)

📅 2022 – Present

- CGPA: 3.72/4.00
- Focus: Software Engineering, Distributed Systems, Backend Architecture

## LANGUAGES

---

Amharic (Native)

English (Professional)