

ESTIFANOS KEBEDE

Software Engineer | Backend & Full-Stack

Addis Ababa, Ethiopia | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

PROFESSIONAL SUMMARY

Computer Engineering student and software engineer with hands-on experience building **backend services, APIs, real-time systems, and full-stack applications** across Java/Spring Boot, TypeScript/NestJS, Python/FastAPI, React/Next.js, React Native, and Kotlin. Strong focus on problem solving, clean architecture, distributed systems, databases, testing, debugging, and explaining technical decisions. Built production-oriented projects using WebSockets, GraphQL, gRPC, Kafka, Redis, PostgreSQL, Docker, and RAG/vector search.

EDUCATION

Addis Ababa University | B.Sc. in Electrical and Computer Engineering | Current Student
School of Electrical and Computer Engineering, College of Technology and Built Environment

PROFESSIONAL EXPERIENCE

Tewanay Engineering PLC | Full Stack Developer Intern

- Rebuilt a customer-facing WordPress website as a modern Next.js application integrated with Sanity, improving maintainability and content management.
- Worked across responsive UI implementation, content modeling, component structure, and production integration of the headless CMS workflow.

MO Business PLC | Part-Time Remote Full Stack Developer

- Developed responsive web experiences using React and React Router v7, emphasizing reusable components, clean routing, and maintainable frontend structure.

Horizon Tech ICT | Junior Full Stack Developer

- Worked across frontend and backend layers to implement application features, integrate APIs, troubleshoot issues, and support delivery in a remote engineering environment.

SELECTED ENGINEERING PROJECTS

AI Learning Platform - Spring Boot, FastAPI, gRPC, Kafka, PostgreSQL, Redis, Qdrant, Docker | [GitHub](#)

- Designed a distributed backend for authentication, profiles, files, chat, RAG processing, and notifications using service boundaries with versioned Protocol Buffer contracts.
- Implemented Kafka event workflows, Redis fan-out/rate limiting, Qdrant vector retrieval, service-specific PostgreSQL persistence, and Docker Compose orchestration; gateway flows support SSE/WebSocket response streaming.

SocialHub - NestJS, TypeScript, GraphQL, Prisma, PostgreSQL, Redis, React Native | [GitHub](#)

- Built a modular GraphQL backend for authentication, social graphs, posts, reactions, nested comments, notifications, and direct/group messaging.
- Implemented JWT/refresh-token auth, Google/GitHub OAuth, email verification, password reset, CQRS, event-driven side effects, Redis Pub/Sub, real-time GraphQL subscriptions, and a React Native/Expo client.

Multi-Space Launcher - Kotlin, Jetpack Compose, Room, DataStore, Coroutines, StateFlow | [GitHub](#)

- Developed an Android launcher with explicit presentation, domain, data, platform, and diagnostics boundaries; implemented persistent Spaces, app membership, ordering, layouts, wallpapers, and launcher-level PIN security.
- Integrated LauncherApps/PackageManager APIs and added cached package metadata, package-event deduplication, deterministic placement resolution, and state-driven UI interactions.

Kasina Chat Backend - Java, Spring Boot 3.4, MongoDB, STOMP/WebSocket, Maven, Docker | [GitHub](#)

- Built a real-time messaging backend for private and group chat with STOMP/WebSocket, WebSocket session tracking, event listeners, authentication, and MongoDB persistence.

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, Python, Kotlin, SQL

Backend: Spring Boot, Spring WebFlux, NestJS, FastAPI, REST, GraphQL, gRPC, WebSocket, SSE

Data & Messaging: PostgreSQL, MySQL, MongoDB, Redis, Kafka, Qdrant, Prisma, TypeORM

Frontend & Mobile: React, Next.js, React Native, Expo, Jetpack Compose

Architecture & Engineering: Microservices, Clean Architecture, CQRS, DDD, Event-Driven Architecture, OOP, Domain Modeling, Testing, Debugging

CS Foundations: Data Structures & Algorithms, Database Systems, Computer Networks, Software Engineering

DevOps & AI: Docker, Docker Compose, Git, GitHub, Maven, Gradle, CI/CD, RAG, vector search, embeddings, AI provider integration