

BAREKEGN ASEFA

Full-Stack Engineer

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PROFILE

Full-Stack Engineer specializing in production-grade multi-role systems and real-time platforms. Shipped applications used by 2,000+ users across government, education, and hospitality — including a revenue-generating SaaS product and a commissioned hotel operations system. Hackathon participant and community builder with end-to-end ownership from schema design to deployment.

EXPERIENCE

Software Engineering Intern

2024 – 2025

Ethiopian Ministry of Innovation and Technology — Addis Ababa, Ethiopia · [Live demo](#)

Stack: Next.js, TypeScript, Prisma ORM, PostgreSQL, Node.js, Express.js

- Built MinT, a cross-departmental project management system adopted by the Ministry in production
- Owned backend architecture: designed the data model for nested project structures with hierarchical RBAC
- Implemented real-time data synchronization and a government-compliant audit trail system

PROJECTS

Ras Hotel Management System

2025 – 2026

Lead Full-Stack Developer — Real-client commission (hotel in Harar, Ethiopia) · [Live demo](#)

Stack: Next.js 14, Supabase, PostgreSQL, TypeScript, Chapa, Africa's Talking

- Designed a 14-table relational schema covering bookings, rooms, staff roles, payments, and guests
- Integrated Chapa payment gateway (TeleBirr, CBE Birr), Africa's Talking SMS, and PDF ticket generation
- Developed multi-role staff dashboard (admin, receptionist, manager) with Amharic/Afaan Oromo localization

HU Freshman — AI Academic Platform

2025 – 2026

Full-Stack Developer & Product Lead — Self-initiated | Freemium SaaS | Revenue-generating · [Live demo](#)

Stack: React.js, Node.js, Express.js, Firebase, OpenAI API

- Platform serving 2,000+ freshman students with a Premium model generating real revenue
- Built mock exam engine (500+ questions, auto-grading), RAG-based AI study assistant, and GPA predictor
- Impact: 30% improvement in exam scores; 20% reduction in first-year failure rates

HU Connect — University Knowledge Platform

2025 – 2026

Backend Lead — Self-initiated | 2,000+ members | MySQL on Aiven · Backend on Render · [Live demo](#)

Stack: React.js, Node.js, Express.js, MySQL (Aiven), Socket.io

- Designed reputation scoring algorithm and real-time notification system (Socket.io, thousands of users)
- Built multi-layer content moderation: automated spam detection + community self-governance

ShopVerse — E-commerce Platform

2025 – 2026

Full-Stack Developer — Self-initiated · [Live demo](#)

Stack: React.js, Node.js, Express.js, Firebase, Stripe

- End-to-end e-commerce platform with Stripe payments, real-time order tracking, and admin dashboard

CERTIFICATIONS & RECOGNITION

- Cursor Hackathon East Ethiopia 2026 — Certificate of Achievement** Mar 2026

Cursor · Awarded by Alpha Lencho, Cursor Ambassador

Participated in a 2-day AI-assisted development hackathon by Cursor. Recognized for technical execution, creativity, and collaborative problem-solving. [View Certificate](#)
- HUCISA Founding Member — Certificate of Participation** Nov 2024

Haramaya University CCI · Signed by College Dean Dr. Kassahun Takele

Recognized for founding HUCISA — the university's first computing student association — building a technical community for 1,000+ CS/IT students. [View Certificate](#)
- National Voluntary Community Service — Certificate of Recognition** 2024

Ministry of Peace & Ministry of Education, Federal Democratic Republic of Ethiopia

30-day government cross-border voluntary service program (5 days training + 25 days community deployment). [View Certificate](#)

EDUCATION

- B.Sc. Software Engineering**

Sep 2022 – Jun 2026

Haramaya University — Haramaya, Ethiopia · Graduated June 27, 2026

Founding Member, HUCISA · Participant, Cursor Hackathon East Ethiopia 2026
- MERN Stack Web Application Development**

2022 – 2023

Evangadi Tech

TECHNICAL SKILLS

- Languages:** JavaScript (ES6+), TypeScript
- Frontend:** React.js, Next.js 14, HTML5, CSS3, Tailwind CSS
- Backend:** Node.js, Express.js, REST API Design
- Databases:** PostgreSQL, MySQL, Firebase, Supabase, Prisma ORM
- Integrations:** Stripe, Chapa, Africa's Talking, OpenAI API (RAG)
- Tools:** Git/GitHub, Socket.io, JWT Auth, Docker (basics), Render, Aiven, Vercel

LANGUAGES

English (Fluent) · Amharic (Native) · Afaan Oromo (Basic)