

ATNATEWOS HAILEALEM

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Summary

AI-focused full-stack engineer building production systems with **RAG, multi-agent architectures, and scalable APIs** using **FastAPI, React, and PostgreSQL**; shipped products used by **3,000+ users across 35+ universities**, with strong ownership and rapid iteration.

Work Experience

iCog Labs

Aug 2025 – Present

AI/ML Engineering Intern

Addis Ababa

- Built backend APIs for **Mindplex.ai Reputation Service** using **Python/Django**, improving scalability and performance of decentralized social interactions
- Containerized services with **Docker** and configured **Nginx**, increasing deployment reliability
- Developed **React interfaces** integrated with **RAG-based systems**, enabling real-time AI-powered user experiences
- Designed and implemented **multi-agent systems** and **RAG pipelines** using **LangChain, FastAPI, and CrewAI**

Zemenay Tech (Efuye Gela)

Jun 2025 – Jan 2026

Full-Stack Engineer

Addis Ababa

- Built and shipped internal platforms using **React, Next.js, Node.js, MongoDB**, improving company-wide workflows
- Mentored **200+ developers**, leading code reviews and structured training execution
- Delivered production-ready systems balancing rapid iteration and maintainability

EXP Ethiopia

Feb 2025 – Oct 2025

Co-Founder & Full-Stack Developer

Addis Ababa

- Built and launched a developer collaboration platform using **React, Firebase, Tailwind**, replacing manual workflows
- Scaled to **50+ contributors** and won the **10th St. Mary's ICT Exhibition Hackathon**
- Owned product lifecycle end-to-end, from idea to deployment and iteration

Projects

EPrep | Website

Next.js | Firebase | Cloudinary

- Built a platform for Ethiopia's **national exit exam**, aggregating verified preparation resources into one system
- Onboarded students from **35+ universities nationwide**, solving fragmented access to study materials
- Reached **3,000+ users** and **250+ active learners** within days of launch

ScoutHire | GitHub

FastAPI | CrewAI | Next.js

- Engineered a **multi-agent AI system** (profile analyzer, scraper, matcher) to automate job discovery workflows
- Reduced manual job search effort by generating structured, personalized recommendations
- Built scalable backend using **FastAPI** and orchestrated agents via **CrewAI**

Mindplex.ai | Website

Django | Docker | PostgreSQL

- Implemented backend services for a decentralized AI social platform, focusing on scalability and performance
- Built REST APIs, containerized services, and configured production infrastructure using **Docker + Nginx**

Technical Skills

Languages: Python, JavaScript, C++, SQL

Frameworks: FastAPI, TypeScript, React, TailwindCSS, Next.js, Express.js

AI/ML: RAG, Hugging Face, CrewAI, Multi-Agent Systems

Tools: Docker, Nginx, Firebase, MongoDB, PostgreSQL, Prisma, Cloudinary, Git, Codex, Cursor