

BILISUMA TADESSE

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PROFESSIONAL SUMMARY

Software Engineer transitioning into AI systems with experience building RAG workflows and LLM integrations. Currently AI System Engineer at Cooperative Bank of Oromia, developing internal AI applications using FastAPI, LangChain, and PostgreSQL. Proven backend development experience with scalable automation solutions. Certified in AI/ML through DeepLearning.AI.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java

AI & Machine Learning: OpenAI API, LangChain, RAG Systems, Vector Databases

Backend & APIs: FastAPI, Django, REST APIs

Databases: PostgreSQL, MySQL, Vector Databases

Frontend & Mobile: React, Flutter

DevOps & Tools: Docker, Git, Linux, Nginx

PROFESSIONAL EXPERIENCE

AI System Engineer – AI Foundry Team

Sep 2025 – Present

Addis Ababa, Ethiopia

Cooperative Bank of Oromia

- Developing internal AI applications using FastAPI, LangChain, PostgreSQL, and OpenAI API
- Implementing RAG workflows and vector search for knowledge retrieval systems
- Building full-stack solutions with React and Python backend for LLM integration
- Supporting testing and deployment of AI prototypes for internal use

Jan 2025 – Sep 2025

Addis Ababa, Ethiopia

Software Engineer

Cooperative Bank of Oromia

- Developed digital banking prototypes on Temenos Quantum and Tencent Cloud Super App platforms
- Collaborated with vendor teams on technical validation and agile development cycles

Nov 2023 – Jan 2025

Addis Ababa, Ethiopia

Associate Card Banking Officer

Cooperative Bank of Oromia

- Developed EJSYNC, automated ATM log collection system serving 700+ terminals with Python, Django, and React
- Built Windows Services for real-time file synchronization and centralized processing
- Designed automation tools improving operational efficiency by 40% for payment switch operations

FEATURED PROJECTS

Knowledge Base RAG Assistant | Flowise, Supabase, n8n, OpenAI

Sep 2025

- Led RAG-based knowledge assistant during 24-hour hackathon, achieving 2nd place out of 6 teams
- Designed AI workflows using Flowise and n8n, integrated vector search with Supabase

EJSYNC – ATM Log Automation | Python, Django, React, MySQL

Oct 2024 – Apr 2025

- Architected multithreaded server handling 700+ ATM terminals for Electronic Journal collection
- Built automated pipeline replacing manual processes, improving reconciliation speed by 60%

CERTIFICATIONS

Agentic AI RAG Specializations – DeepLearning.AI (2025)

Machine Learning Specialization – DeepLearning.AI (2025)

Meta Full-Stack Engineer Certificate – Meta (2025)

FastAPI Essentials – CodeSignal (2025)

EDUCATION

BSc in Computer Science and Engineering – GPA: 3.67/4.00

Oct 2017 – Jul 2022

Adama Science and Technology University

Adama, Ethiopia