

# TEMESGEN GEBREABZGI

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AI Engineer and Full-Stack Developer with 3+ years of experience building and deploying scalable, production-ready applications with integrated Generative AI and machine learning systems. Proficient in Python, Next.js, Django, FastAPI, cloud platforms (AWS, GCP), and databases (PostgreSQL, MongoDB, Supabase). Skilled in LLM integration, RAG pipelines, agentic workflows, and AI tools including LangChain, LlamaIndex, Hugging Face, OpenAI APIs, delivering reliable, high-impact software solutions.

## Skills

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**Languages:** Python (3 yrs), JavaScript (3 yrs), Java (2 yrs), TypeScript (2 yrs), SQL (3 yrs), Go (1 yr)

**Frameworks:** FastAPI (3 yrs), Django (2 yrs), Flask (2 yrs), React (3 yrs), Next.js (2 yr), & Angular (1 yr)

**AI/ML Libraries & Frameworks:** TensorFlow, PyTorch, scikit-learn, LangChain, LlamaIndex, OpenCV, NLTK, Transformers & Streamlit

**DevOps & MLOps:** Docker, MLFlow, DVC, Apache Airflow, Apache Kafka

**Databases:** MongoDB, PostgreSQL, MySQL, Weaviate & Vector DBs

**Technical skills:** Prompt Engineering, Computer Vision, CNN, RNN, EDA, NLP, CI/CD, n8n, LangGraph & Langflow

**Cloud computing:** AWS, Azure & GCP

## Education

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**Bachelor of Science in Information Systems - Addis Ababa University, Addis Ababa, Ethiopia. Graduated:** July 2023

- **Relevant Coursework:** Fundamentals of Programming, Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), Database Management Systems (DBMS), Applied Mathematics, Statistics, Information Security, Artificial Intelligence (AI), Data Science and Analytics, Enterprise Resource Planning (ERP) Systems

**Generative AI Engineering - 10Academy, Remote. Graduated:** October 2024

- **Relevant Coursework:** AI Engineering, Prompt Engineering, Machine Learning Engineering, Data Engineering, RAG-pipelines, LLM Fine-tuning, LangChain, PyTorch, TensorFlow, scikit-learn, Matplotlib, CNN & RNN, Containerization, MLOps and CI/CD

## Work Experience

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**AI Engineer & Technical Tutor - 10 Academy - Remote - February 2026 - Present**

- Tutoring forward-deployed engineers on agentic AI architectures, coding agents (Claude, Codex, Gemini), and LLM-powered automation across brownfield and greenfield projects.
- Led trainee teams through weekly sprints on agentic systems, data engineering, and LLM fine-tuning — one team secured a top-10 spot on UC Berkeley's DataAgentBench.
- Built a program-agnostic meeting automation platform (FastAPI, Next.js, Strapi, PostgreSQL) that extracts Drive recordings via Notion schedules, auto-publishes to YouTube, and tracks attendance.
- Enhancing an NLP-powered data dashboard with multi-agent query generation, enabling non-technical users to retrieve and visualize data from Strapi and Weaviate via natural language chat.

**Software Engineer - Safaricom - Addis Ababa, Ethiopia - June 2025 - February 2026**

- Led frontend development and refactoring for the 'One Platform', a modular enterprise system with multiple independently deployed sub-applications, unified under a single platform architecture.

- Refactored legacy, inconsistently maintained frontend codebases into a standardized design system (shadcn/ui) and shared framework, resulting in faster page loads, improved data fetching, clearer error handling, and significantly reduced production issues.
- Accelerated feature delivery by adding and maintaining independently deployed modules with CI/CD pipelines, improving platform consistency and reducing recurring support and debugging cycles.

#### **Founding AI Engineer - Chronos - Remote (Concurrent engagement) - June 2025 - December 2025**

- Designed and built Chronos' AI financial advisor, integrating NLP and recommendation models for personalized finance insights.
- Developed and deployed AI-driven investment strategies (crypto, stocks, and NFTs) to support automated wealth management.
- Architected multi-currency account infrastructure enabling seamless transfers, exchanges, and portfolio management.
- Implemented AI-powered smart spending tools, improving user financial tracking and bill payment efficiency.

#### **Software Engineer - Bluespark Business Technology plc - Addis Ababa, Ethiopia - February 2025 - June 2025**

- Developed a scalable, customizable Sales Force Automation System using FastAPI, PostgreSQL, and Svelte.
- Engineered reusable API endpoints and modular frontend components with OpenAPI/Swagger, TailwindCSS, and DaisyUI, reducing feature development time by 40%.
- Streamlined the company's manual sales tracking and reporting process, improving operational efficiency by 60% and cutting data entry errors by 70%.

#### **Software Engineer - Ministry of Innovation and Technology - Addis Ababa, Ethiopia - November 2023 - December 2024**

- Built a SaaS document management system with e-signatures, boosting efficiency by 30% and cutting approval time by 40%.
- Developed a startup community platform uniting stakeholders in Ethiopia's innovation ecosystem—featuring startup/investor profiles, forums, event listings, job boards, and resource hubs to foster collaboration and access to funding.
- Improved internal security by monitoring traffic, setting firewalls, and training staff—cut system downtimes by 30%.

#### **Generative AI Engineer - 10 Academy - Remote - April 2024 - October 2024**

- Engineered scalable data warehouses for LLM fine-tuning, utilizing web-scraped data to improve data processing & analysis efficiency by 25%.
- Designed and deployed an automated advertising storyboard generation system, enhancing creative output for marketing campaigns.
- Developed a high-precision legal expert RAG system using advanced NLP, reducing contract Q&A time by 40%.

## **Projects**

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- **Legacy Code Cartographer** 🔗 : Codebase intelligence system that maps legacy production environments using AI agents—generates architecture graphs, dependency maps, and onboarding guides to accelerate forward-deployed engineer ramp-up. Python, AST parsing, multi-agent orchestration.
- **Automation Auditor** 🔗 : Deep LangGraph swarm orchestration for autonomous agent governance—monitors, audits, and enforces policies across multi-agent workflows to ensure safe and compliant AI automation at scale.
- **The Ledger** 🔗 : Agentic event store and enterprise audit infrastructure—immutable memory and governance backbone for multi-agent AI systems, enabling full traceability of agent decisions and actions at production scale.
- **Scalable Data Warehouse for LLM Fine-tuning** 🔗 : ETL pipeline optimizing Amharic NLP models with Airflow, Faust, & Docker—boosted sentiment analysis accuracy by **30%** and pipeline efficiency by **40%** with **90% uptime**.