SAMUEL GETACHEW MULUGETA

AI Engineer | Software Engineer | Entrepreneur

samgatemul@gmail.com +251988490096 Linkedin Addis Ababa, Ethiopia

PROFILE

Computer Engineering graduate and AI engineer with two years of hands-on experience developing LLM-powered applications, agentic workflows, retrieval-augmented generation (RAG) systems, and multi-tenant SaaS platforms. Developed AI-assisted research and decision-support tools integrating web search, fact-checking, and structured outputs. Experienced in agentic AI engineering, custom workflow evals, Python/FastAPI, PostgreSQL, performance testing, and production deployment. Brings an entrepreneurial mindset to complex problems, combining systems thinking, user-centered design, and end-to-end ownership to develop practical solutions.

EDUCATION

Residential Intensive Entreneurship Program **9/2024 – 12/2024**

Jasiri Talent Investor Kigali, Rwanda

- **Core focus**: Problem and opportunity identification, Business Development, Systems Thinking, Product Prototyping and User-Centric Product Design.

Bachelor's Degree in Computer Engineering **10/2019 – 08/2024**

Addis Ababa Science and Technology University Addis Ababa, Ethiopia

- **Relevant Coursework**: Machine Learning, Data Structures and Algorithms, Database Management, Distributed Systems, Software Development Life Cycle (SDLC)

PROFESSIONAL EXPERIENCE

Co-founder & AI Engineer **08/2025 - Present**

Yuba Labs ltd Kigali, Rwanda

- Co-designed and led the development of Yuba, an agentic, multi-tenant SaaS platform enabling Entrepreneurship Support Organizations (ESOs) to deliver venture-building programs and manage ventures, cohorts, and portfolios.
- Designed, prototyped, and built Yuba's autonomous AI agents supporting problem discovery, value proposition design, business model & MVP development, and market validation.
- Designed and conducted platform load and performance testing using Locust, and developed custom evaluations of agentic AI workflows to assess task completion, output quality, consistency, and reliability.
- Designed and prototyped YubaVC, an AI-powered venture due diligence tool integrating web research, fact-checking, and investment readiness analysis to support venture capital screening.
- Designed, prototyped, and developed Apptus, an agentic founder recruitment platform for ESOs, supporting structured candidate assessment and shortlisting.

Co-founder & AI Engineer **11/2024 - 8/2025**

Dossie Technologies Addis Ababa, Ethiopia

- Prototyped an AI-powered medical-record digitization workflow after validating demand through market research conducted across 147 hospitals and health centers with 167 healthcare professionals.
- Designed and implemented DossieScholar, an AI-powered knowledge management platform using OCR to digitize paper-based academic records and vector search with retrieval-augmented generation (RAG) to enable intelligent knowledge retrieval.
- Built data cleaning, preprocessing, and ingestion pipelines using Python/FastAPI to process, index and embed 15,000 research papers from Addis Ababa Science and Technology University in a vector database to enable retrieval-augmented generation (RAG).
- Conducted API endpoint performance and concurrent-user testing with Locust to identify bottlenecks and improve reliability.

Co-founder & Software Engineer **06/2022 - 04/2023**

AgriStar Addis Ababa, Ethiopia

- Developed a digital platform connecting smallholder farmers near Addis Ababa Science and Technology University (AASTU) with agricultural markets and pre and post harvest advisory services.
- AgriStar secured third place in the Agriculture, Youth and Technology (AYuTe) Africa Challenge.

Software Engineering Intern **10/2022 - 02/2023**

Safe Transport Technology Addis Ababa, Ethiopia

- Developed a Telegram-based outreach data collection tool using Telepathy, an open-source intelligence (OSINT) framework, to support target-market identification and research.
- Collected and structured over 200,000 target-market data points to support audience targeting, market analysis, and outreach campaign execution.

SKILLS

AI Engineering & Evaluation

- Agentic AI workflows | LangChain | LangGraph | Azure OpenAI | Retrieval-Augmented Generation (RAG) | Qdrant | vector search | LLM tool integration | structured AI outputs, custom agentic AI evaluations | OCR workflows.

Programming & Data Engineering:

- Python | TypeScript | JavaScript | SQL | Supabase/PostgreSQL | FastAPI | data cleaning and preprocessing | data ingestion pipelines.

Application Development, Cloud & Testing:

- React | Next.js | Three.js | WebGL | REST APIs | multi-tenant SaaS | workflow automation | authentication and RBAC | Microsoft Azure | Redis | Celery | Git/GitHub | Locust load and performance testing | Production deployment and troubleshooting.

Product Development & Engineering

- Requirements analysis | problem scoping | rapid prototyping | technical documentation | testing and debugging.

Leadership & Professional Skills:

- End to end project ownership | self directed execution | entrepreneurial problem solving, systems thinking | cross functional collaboration | stakeholder engagement | technical communication.

SELECTED PRODUCTION SYSTEMS

- **Yuba**: an agentic multi-tenant platform for founder workflows, portfolio management, role-based access, and structured venture-validation processes. yubanow.com
- **YubaVC** (Prototype): Agentic venture due diligence and investment-readiness assessment tool integrating web research, fact-checking, and structured analytical reporting. View Prototype
- **Apptus**: AI-powered platform for entrepreneurship support organizations to discover founders, tailor application requirements, and manage rubric-based selection workflows. app.useapptus.com
- **Dossie**: Enterprise AI knowledge platform designed to transform fragmented institutional information, including physical records, documents, and databases, into a centralized, searchable knowledge base for AI-powered information retrieval and knowledge utilization. Dossie.et