

ABEL ASHINE DADI

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SUMMARY

Senior AI Systems Engineer specializing in low-latency infrastructure, real-time AI systems, and agent orchestration. Expert in Rust, Go, and C for building high-scale multilingual voice pipelines, retrieval systems (RAG), and vector search architectures. Proven track record in developing autonomous agent workflows and productionizing LLM-driven applications for enterprise banking and logistics.

EXPERIENCE

Senior Software Developer - AI Agents

PossibleTech PLC

Mar 2026 — Present, Addis Ababa, Ethiopia

- Architecting production-grade AI agents, reducing inference latency by 35% through optimized streaming and tool-calling orchestration.
- Implementing automated evaluation pipelines for agent workflows, increasing reliability of policy validation across enterprise data flows.
- Designing real-time voice and text agent infrastructure benchmarked for sub-200ms response times in high-concurrency environments.

Cofounder & Software Engineer

SPIN.TF

Jul 2023 – Nov 2025, Remote

- Architected an NFC-backed authentication ledger and 3D product catalog with SHA-256 digital records.
- Built semantic search and AI metadata summarization agents using Three.js for performant visualization.

Cofounder & Systems Architect

WELEBA Technology

Nov 2025 — Apr 2026, Addis Ababa, Ethiopia

Designed high-concurrency KYC/biometric gateways using Rust (Axum) and Go (Fiber) for thousands of requests/sec.

Founder / Full-Stack Engineer

ZENBIL / ZARESHOP

2024-01-2025-12, On-site

- Architected a multi-vendor e-commerce ecosystem with merchant dashboards, secure payments, transaction audit trails and logistics integrations.
- Zenbil awarded 2nd place (75,000 ETB) at the Tourism & Technology Hackathon.

PROJECTS

Black Diamond Mobile Super-App

- Cross-platform enterprise super-app combining ride-hailing, logistics, spare-parts marketplace, bidding/tendering, short-form reels and real-time chat.
- Engineering highlights: custom MapView with live GPS & pricing engines, bidding pipeline connecting Tender Managers and Sellers, high-performance video playback optimizations, SQLite/GraphQL offline sync and WebSocket chat with push notifications.
- Tech: React Native (Expo), Socket.io, SQLite sync, GraphQL sync.

EthioVoice AI (Multilingual Banking Voice Agent)

- Developed a low-latency, WebSocket-first voice-to-voice pipeline for banking using Whisper-Large-v3, NLLB-200, and Coqui TTS.
- Engineered a 'Translation Sandwich' architecture to preserve acoustic fidelity across multilingual RAG-backed conversations.
- Architected retrieval pipelines using pgvector and ChromaDB, implementing policy validation to eliminate LLM hallucinations.
- Scaled the platform as an API-first service with FastAPI, optimizing streaming inference for real-time agent workflows.

EDUCATION

Bachelor, Software Engineering

Addis Ababa Institute of Technology (AAIT) • 2023

SKILLS

Programming Languages: Rust, Go, C, TypeScript, Node.js, Python, Flutter

AI & Systems: LLM Agents, RAG, Tool Calling, AI Orchestration, Agent Workflows, Vector Search, Prompt Engineering, Streaming Inference, Real-Time AI Systems, Voice AI, Retrieval Pipelines

Web Technologies: Three.js, WebGL, WebSockets, React, React Native, Expo

DevOps & Cloud: Docker, CI/CD, AWS