

Samuel Adekanmi

AI ENGINEER – FULL-STACK DEVELOPER – ALGORITHMIC TRADER

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Professional Summary

AI engineer and full-stack developer with hands-on experience building autonomous agent platforms, MCP server integrations, LLM-powered applications, voice interfaces, and algorithmic trading systems. Designed and shipped production AI systems including a multi-agent orchestration platform with tool-calling, semantic memory, and automated social publishing pipelines; custom MCP tooling for desktop automation and API orchestration; a voice assistant with speech recognition, TTS, and long-term memory; and a real-time market alert engine deployed on Vercel with GitHub Actions scheduling. Combined with three years of full-stack web development (Python, JavaScript, Next.js, React, PostgreSQL) and funded proprietary trading experience. Grew a personal brand to 22,000+ followers in 12 months through data-driven content strategy.

Core Competencies

- AI Agent Systems: Multi-Agent Orchestration, Tool-Calling, MCP Server Development, Semantic Memory
- LLM Integration: Local Model Deployment (Ollama), Prompt Engineering, RAG Pipelines, Embedding Generation
- Full-Stack Development: Python, JavaScript, TypeScript, Next.js, React, FastAPI, Express
- Voice AI: Speech-to-Text (Whisper), Text-to-Speech (Edge-TTS, Pocket-TTS), Wake Word Detection
- API Development & Integration: REST APIs, Third-Party API Orchestration, OAuth, Webhook Pipelines
- Algorithmic Trading: Pine Script v6, MQL5 Expert Advisors, FVG/CRT/SMT Strategy Development
- Automation & DevOps: Playwright Browser Automation, n8n Workflows, Vercel, GitHub Actions CI/CD

Key Projects

- AgentStack – Autonomous AI agent platform with multi-agent orchestration, tool-calling engine, MCP-compatible tool registry, semantic memory, and automated social publishing. Built with Fastify, Next.js 15, Prisma, SQLite, and local LLM (Ollama). Includes Business OS layer with 6 agent personas.
James – JARVIS-style voice assistant with speech recognition (Faster-Whisper), TTS (Edge-TTS), long-term memory, and hotkey/wake-word activation. Powered by Claude with local Ollama fallback. Includes real-time overlay UI and custom tool integrations.
- Desktop Control MCP – Model Context Protocol server enabling AI-driven screen interaction: screenshot capture, mouse/keyboard control, window management. Built as a Python MCP harness for Claude desktop automation.
- JobHunter AI – AI-powered job search assistant with Playwright browser automation, local LLM profile extraction, multi-source job aggregation (Remotive, Arbeitnow, Jobicy), and approval-first safety model. FastAPI + Next.js + Ollama.
- AlphaSignal Engine – Real-time algorithmic market monitoring deployed on Vercel with GitHub Actions (every 15 min). Detects Fair Value Gap, CRT, and SMT setups on XAUUSD and US100, emails alerts via Gmail SMTP. TypeScript, Twelve Data + Yahoo Finance APIs.

- VulnLab – Deliberately vulnerable OAuth 2.0 server and client for pentest practice. 8 documented attack vectors (redirect URI bypass, code replay, scope escalation) with walkthroughs. Built with Flask, Docker Compose, OpenID discovery, Burp Suite integration, and Python automation tester.
- OmniRouter – Multi-model AI ensemble that routes prompts to the best free model via OpenRouter or local Ollama. Two modes: task routing with 2-model failover, and debate/chain (drafter to critic to synthesizer loop). Built with Python, FastAPI, httpx, and SQLite. Includes REST API and interactive CLI.
- MoneyHacks Store – Live digital products e-commerce store with content hub and freelance services. 7 products listed, Gumroad payment integration, responsive landing pages, and blog. Built with Next.js 15, React 19, TypeScript, Tailwind CSS, Framer Motion. Deployed on Vercel.
- SchoolHub – School management platform for Nigerian schools covering nursery to senior secondary. Handles registration, operations, digital education delivery, fee collection, and analytics. Built with Next.js 16, Express 5, PostgreSQL (Prisma), Supabase Auth, Termii SMS, Resend email, Paystack payments, and PostHog product analytics.
- ProLink – Full-stack freelancing marketplace connecting Nigerian professionals with clients. Features job posting, bidding, milestone-based escrow (Paystack), real-time chat (Socket.IO), professional portfolios, and dispute resolution. Built with Next.js 16, Express 5, PostgreSQL (Prisma ORM, 22 models), and deployed on Vercel. Includes React Native (Expo) mobile app.

Key Achievements

- Architected AgentStack, a production AI agent platform with multi-agent orchestration, tool-calling engine, MCP-compatible tool registry, semantic memory, and automated social publishing, all running on local infrastructure with zero paid API costs.
- Built and integrated custom MCP servers for desktop automation and API orchestration, extending AI agent capabilities with screen control, browser automation, and third-party service connections.
- Engineered a JARVIS-style voice assistant with speech recognition, TTS, long-term memory, and Claude/Ollama dual-brain architecture for online and offline operation.
- Built and deployed a real-time algorithmic trading alert engine (TypeScript) on Vercel with GitHub Actions scheduling, processing live market data and emailing trade signals for Gold CFDs and Nasdaq Indices.
- Designed and validated an MT5 Expert Advisor and TradingView indicator implementing Fair Value Gap, CRT, and SMT correlation strategy with backtested results.
- Grew a personal brand from zero to 22,000+ followers in 12 months through data-driven content strategy across Facebook, TikTok, and Instagram.

Professional Experience

AI Engineer & Full-Stack Developer – SamTech Labs

2023 – Present

- Architected AgentStack, a production AI agent platform with multi-agent orchestration, tool-calling engine, MCP-compatible tool registry, semantic memory, and automated social publishing pipelines.
- Built custom MCP server integrations for desktop automation (screen capture, mouse/keyboard control) and third-party API orchestration, extending AI agent capabilities across services.
- Engineered James (voice assistant), JobHunter AI (automated job search), a real-time market alert engine, and MoneyHacks Store, spanning LLM integration, voice AI, browser automation, and cloud CI/CD pipelines.

Funded Proprietary Trader – Maven Trading Group**July 2025 – Present**

- Passed a funded evaluation by meeting profit targets and strict consistency rules.
- Managed live capital with disciplined risk-to-reward and drawdown controls.
- Maintained a 12+ month trade journal, reviewed weekly to identify and correct weaknesses.

Content Creator & Social Media Manager – Lyka Fashion**2024 – Present**

- Managed social media across multiple platforms, publishing twice daily.
- Grew sales by pairing sharp audience targeting with content that converts.
- Planned, wrote, and scheduled content, tracked performance, and scaled what worked.

Content Creator & Fashion Blogger – Fabulous Ankara Designs**2020 – Present**

- Grew the blog audience to 22,000+ followers through consistent fashion content and style guides.
- Created and published style lookbooks, trend breakdowns, and outfit inspiration across Facebook, TikTok, and Instagram.
- Studied audience response and shaped content around what resonated.

Teacher – Tinachristal Schools**August 2018 – March 2019**

- Raised student comprehension to an estimated 75–85% with clear, structured lessons.
- Built trust with students and parents, earning an estimated 80–85% positive feedback.
- Maintained 90–95% accuracy in student records and reporting.

Education & Certifications

- University of Ilorin, BSc (Education) in Educational Technology
Second Class Honors, Upper Division 2021 - 2025
- Maven Certificate of Completion (funding evaluation)