OLUWAYANFUNMI JEJE

Lagos, Nigeria | +234 913 086 0401 | jejeniyi7@gmail.com
LinkedIn: linkedin.com/in/dubjay18 | GitHub: github.com/Dubjay18 | Portfolio: jayfolio.dev

PROFESSIONAL SUMMARY

AI Systems & Software Engineer with 4+ years of engineering experience developing autonomous agent infrastructure, LLM gateways, persistent agent memory systems, and semantic vector retrieval pipelines. Proficient in Go, Python, TypeScript, pgvector, and distributed backend architectures. Deep expertise in orchestrating multi-agent workflows, model observability, hybrid search (BM25 + Dense), and production AI integrations.

TECHNICAL SKILLS

- **Languages:** Python, Go, TypeScript, JavaScript, SQL
- **AI & Agent Infrastructure:** LLM Gateways, Autonomous Agents, Agent Memory Systems, Prompt Engineering, Streaming Inference
- **Search & Retrieval:** Vector Search, pgvector, Hybrid Retrieval (BM25 + Dense Embeddings), RAG Systems, Model Eval Harnesses
- **Backend & Frameworks:** FastAPI, NestJS, Gin (Go), Node.js, REST APIs, WebSockets
- **Cloud & Operations:** Docker, AWS, PostgreSQL, Redis, GitHub Actions (CI/CD)
- **Developer Tooling & Observability:** Tracing, Token Usage Monitoring, Latency & Cost Optimization, Evaluation Benchmarking

PROFESSIONAL EXPERIENCE

Cleverfolks

AI Systems & Frontend Engineer (Contract) | Apr 2025 – Jul 2025 | United Kingdom (Remote)

- Collaborated with core AI and backend engineering teams to integrate real-time agent communication protocols and tool execution pipelines into client applications.
- Engineered live observability dashboards to track, trace, and visualize asynchronous multi-agent coordination states and decision chains.
- Optimized client-server data streaming to render token streams and high-throughput AI outputs without frame drops or memory leaks.

Gearsparks Consulting Ltd

Forward Deployed Software Engineer (Contract) | Dec 2025 – Mar 2026 | Lagos, Nigeria (Remote)

- Led application delivery for WorkSage, an AI-powered enterprise B2B SaaS platform, integrating generative AI model outputs into intuitive business workflows.
- Defined robust schema validation pipelines and contract interfaces between machine learning service microservices and client applications.
- Implemented real-time interactive user interfaces utilizing REST endpoints with optimistic state updates and error boundaries handling model timeouts.

Throughline (formerly Mission Sync)

Fullstack Engineer - Infrastructure & Performance | Apr 2025 – Jan 2026 | Canada (Remote)

- Optimized platform infrastructure using Docker containerization and blue-green deployments, achieving 99.9% uptime and zero-downtime application deployments.
- Refactored core TypeScript modules and build pipelines, cutting compilation overhead by 30% to accelerate iterative model and feature deployments.

Sovalabs Ltd

Backend Engineer (Contract) | Mar 2026 – Present | Lagos, Nigeria

- Architected enterprise financial data pipelines, double-entry ledger mechanisms, and automated processing jobs using NestJS and PostgreSQL on AWS RDS.
- Designed 18 production RESTful endpoints across 7 core system modules with rigorous input validation and audit logging.

AI INFRASTRUCTURE & OPEN SOURCE PROJECTS

Reverie | Creator & Core Engineer

Go, Autonomous Agent Architecture, Memory Systems | 2026

- Engineered an agent-agnostic persistent memory layer in Go enabling AI agents to store, index, and query historical context across disconnected sessions.
- Designed an asynchronous background "dreaming" consolidation engine that continuously evaluates, abstracts, and compresses raw interaction histories into durable memory representations.

Warden | Architect & Developer

Go, Next.js, TypeScript, LLM Observability | 2026

- Built a self-hosted LLM gateway and observability platform (inspired by Helicone and Langfuse) providing intelligent proxying and request routing across foundation model providers.
- Implemented automated request tracing, prompt versioning, token consumption tracking, and per-team cost analytics via a unified Next.js dashboard.

Rialto | Core Contributor - AI Agent Discovery & Settlement

TypeScript, PostgreSQL (pgvector), Next.js, Soroban | 2026

- Co-developed an x402 payment facilitator and Bazaar discovery layer for Stellar (SCF #45 RFP), enabling autonomous AI agents to discover, invoke, and pay for external web services and APIs.
- Engineered a hybrid retrieval engine pairing BM25 keyword matching with dense pgvector semantic embeddings, gated by an automated ranking evaluation harness.
- Integrated on-chain Soroban settlement contracts to enforce strict agent spending limits.

Spectra Labs | Engineering Lead

Next.js, Agentic Applications | 2026

- Engineered the digital platform for Spectra Labs, an engineering agency specializing in building autonomous agentic workflows and bespoke AI solutions for enterprise clients.

EDUCATION

Obafemi Awolowo University

Bachelor of Science in Computer Science with Mathematics | 2021 – 2026 | Ile-Ife, Nigeria

- Relevant Coursework: Artificial Intelligence & Algorithms, Operating Systems, Database Systems, Computer Networks