Michael Tunwashe

AI Application Engineer | LLM Integrations, Workflow Automation & Backend Systems
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Summary

AI application engineer and Mathematics undergraduate building software products that integrate LLMs, automation, and backend systems. Experienced in Python and TypeScript development, API integration, structured data processing, model evaluation, and real-time application architecture. Builds AI-enabled workflows and developer tools with an emphasis on reliability, practical utility, and maintainable software. Interested in AI application engineering, business process automation, AI-assisted software development, and backend engineering.

Core Competencies

- LLM API Integration
- AI Workflow Automation
- Prompt Engineering
- AI Agents & Tool Use
- RAG & Embeddings
- Structured Data Extraction
- LLM Evaluation
- Model/API Orchestration
- Python / TypeScript
- Backend Development
- API Design & Integration
- Deployment & Testing

Experience

Technical Lead, LunixDV April 2026 – Present

- Coordinate a four-developer team across software and AI projects, overseeing architecture, implementation, technical decisions, and delivery.
- Design and build backend systems, API integrations, and AI-enabled application components.
- Develop data workflows and software infrastructure with emphasis on reliability, data integrity, and maintainability.
- Contribute to technical decisions around integrating AI capabilities into practical software products.

LLM Evaluator, Turing December 2025 – February 2026

- Evaluated large language model outputs against structured technical and reasoning criteria.
- Conducted systematic error analysis to identify recurring failure patterns and assess model reliability.
- Applied structured evaluation frameworks to assess output quality across technical tasks.

Data Analyst Intern, HNG Tech August 2025 – November 2025

- Automated analytical and reporting workflows using Python and SQL.
- Processed structured datasets and developed reporting outputs to support data-driven decisions.
- Built dashboards and analytical tools with emphasis on reporting consistency and data quality.

Selected Projects

ZRAI — Zero-Retention AI Privacy Sidecar October 2026 – Present

- Developing a local-first privacy proxy with a Rust core and TypeScript sanitization rules using embedded QuickJS.
- Implementing OpenAI- and Anthropic-compatible HTTP/SSE interfaces for integrating privacy controls into existing AI workflows.
- Building request sanitization for sensitive information, header scrubbing, and in-memory processing.
- Developing automated tests for service behavior and data handling.

WXATA — WhatsApp Automation Platform April 2026 – Present

- Building a Bun and TypeScript automation platform with a real-time React dashboard.
- Implementing WebSocket communication, permission-controlled execution, and concurrent event processing.
- Developing job lifecycle management, granular authorization, and operational observability for automated workflows.

Mousiki — Music Recommendation System December 2025 – Present

- Built a recommendation system combining neural collaborative filtering with content-based embeddings.
- Implemented a hybrid scoring approach and epsilon-greedy ranking to balance recommendation relevance and exploration.
- Evaluated candidate models using offline ranking metrics.

BRIS — Retail Intelligence Platform October 2025 – January 2026

- Built a backend platform using FastAPI, PostgreSQL, SQLAlchemy, and Docker.
- Developed REST APIs, database schemas, and ETL pipelines for structured data processing.
- Implemented synthetic data generation and containerized services for reproducible development and testing.

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, Rust, Dart
AI Application Development: LLM API integration, Gemini API, prompt engineering, AI agents, tool use, RAG, embeddings, structured extraction, LLM evaluation
Backend & Automation: FastAPI, Bun, Node.js, PostgreSQL, SQLAlchemy, REST APIs, WebSockets, asynchronous workflows
Engineering & Deployment: Docker, Linux, Git, CI/CD, React, automated testing, API integration

Data & ML: NumPy, pandas, scikit-learn, PyTorch, Transformers, data processing, model evaluation

Education

B.Sc. Mathematics University of Lagos Expected 2028

Relevant Coursework: Linear Algebra, Probability & Statistics, Differential Equations, Abstract Algebra