

ADEBAYO BABATUNDE OLUWASEGUN

Full-Stack AI & DevOps Engineer

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PROFESSIONAL SUMMARY

Results-driven Full-Stack Software Engineer with 6+ years of experience architecting scalable web applications, autonomous AI agents, and robust observability pipelines. Proven expertise in modern JavaScript/TypeScript ecosystems (Next.js, NestJS, React) and advanced database optimization (PostgreSQL, MongoDB). Adept at driving end-to-end product delivery—from conceptualizing multi-tenant system designs to deploying highly available, containerized production environments.

TECHNICAL SKILLS

- **Languages & Frameworks:** TypeScript, JavaScript, Python, Rust (Tauri), React.js, Next.js, Node.js, NestJS, Express.js, FastAPI, Flutter
- **Architecture & State Management:** Clean Architecture, Multi-tenant Systems, Microservices, API Gateways, Event-Driven Architecture (BullMQ), Redux, Zustand, TanStack Query, GraphQL, REST APIs
- **Databases & Caching:** PostgreSQL, MongoDB, Firestore, Redis, Prisma ORM, Mongoose
- **DevOps, Observability & AI:** Podman, Docker, GitHub Actions, PM2, PLG Stack (Prometheus, Loki, Grafana, Promtail), OpenTelemetry, Caddy Reverse-Proxy, LLMops, Model Context Protocol (MCP), AI Agent Workflows

PROFESSIONAL EXPERIENCE

Astroxtechnologies | *Full-Stack Software Engineer* | 2025 – Present

- Architect enterprise-grade web applications utilizing Next.js, React, and NestJS, enforcing strict Clean Architecture principles to reduce technical debt and accelerate feature delivery by 10%.
- Engineer real-time state management and complex data synchronization protocols across multi-tenant client applications, supporting 10,000+ concurrent users while maintaining 99.9% data consistency.

Asynctechologies | *Backend Developer* | 2022 – 2025

- Designed and implemented highly scalable REST and GraphQL APIs using NestJS to power enterprise Employee Management systems processing 3,000+ daily transactions.
- Optimized MongoDB schemas and overhauled query execution plans, effectively slashing API response times by 50% under peak server load.

Yetti | *Front-End/Backend Developer* | 2018 – 2022

- Led the end-to-end frontend development of enterprise applications utilizing React and TypeScript, successfully boosting mobile platform traffic by 40%.

- Developed and deployed highly responsive core e-commerce features, driving a **20%** increase in online sales conversion rates over a 12-month period.

KEY PROJECTS

- **Qwen Autopilot Platform (Enterprise AI Agents):** Built an AI autopilot that plans and executes business workflow DAGs from natural language, with Model Context Protocol (MCP) tool integration, human-in-the-loop approval gates, policy-governed execution with an AES-256-GCM credential vault, BullMQ orchestration, multi-tenant RBAC, and Prometheus/OpenTelemetry observability.
- **AI Agent Control Plane (LLMOps):** Architected a multi-tenant NestJS and Next.js platform to deploy, run, and observe autonomous AI agents, with live Socket.IO execution streaming, OpenAI-compatible LLM integration, and per-run token, cost, and latency monitoring via Prometheus and Grafana.
- **Malik Streams (Commerce & Hospitality Suite):** Engineered a 7-service microservices platform: a NestJS API gateway and central OAuth service, Next.js storefront and admin, an offline-capable POS, and a hotel PMS with booking engine, on MongoDB, Redis, and BullMQ.
- **Benjafa (Fintech Platform):** Delivered a savings and investment product across the stack: a NestJS-on-Firebase backend with automated interest accrual and BVN KYC, a Next.js web app, and a Play Store Android release via Trusted Web Activity.
- **Advanced Observability Pipeline:** Deployed a production-ready PLG stack (Prometheus, Loki, Grafana, Promtail) on a VPS, implementing comprehensive node exporters and real-time Telegram alerting for critical 24/7 infrastructure monitoring.
- **GH-Derma (Telehealth Platform):** Developed a multi-tenant clinic management platform featuring payment-gated onboarding, appointments, health records, and real-time Socket.IO notifications, routing traffic via a custom Caddy reverse-proxy configuration.
- **Cosmos Studio (AI Video Generation):** Engineered a cross-platform desktop studio for physics-aware text-to-video generation on NVIDIA Cosmos using Tauri v2 with a Rust core, a FIFO job queue with cancellation, and a hardened security model that keeps API keys out of the webview.

EDUCATION

- **Bachelor of Science in Computer Science** (In Progress) | University of the People, California
- **Bachelor in Electrical/Electronic Technology** (In Progress) | University of Ilorin, Nigeria