

Oluwatoyin Samuel Komolafe

Backend Engineer · Abuja, Nigeria · Open to remote roles & relocation

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SUMMARY

Backend engineer with 5+ years of experience designing, building and operating production systems in TypeScript (Node.js, NestJS, Express) and Python (Django, FastAPI). I have led backend teams, migrated a monolithic HR platform to a multi-tenant SaaS architecture, automated payroll processing that cut operating costs by 23.4%, and shipped the complete backends of three live consumer platforms as an independent engineer. I care about clean data models, reliable integrations and the observability that keeps systems healthy in production.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Backend: Node.js, NestJS, Express.js, Django, FastAPI, REST, gRPC

Architecture: Microservices, Multi-tenant SaaS, Event-driven systems, System design, API integrations

Data & messaging: PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ, Data modeling, Query optimization

DevOps & observability: CI/CD, Jenkins, CircleCI, Azure DevOps, DigitalOcean, Prometheus, Grafana, Sentry

Tools: Git, GitHub, Postman, Jira, Linear, Firebase, Figma

Leadership: Team leadership, Mentoring, Technical documentation, Cross-functional collaboration

EXPERIENCE

Backend Engineer · Evka B.V.

Apr 2025 – Present

Netherlands · Hybrid (Abuja office) · Full-time · mijn.omega-energieotechniek.nl, meetmiddelen.eu

- Built the Omega Inspectie backend end to end on Express 5, TypeScript, MongoDB, Redis and BullMQ: quotations and pricing tiers, planning, status tracking, reports and SCIOS certificates.
- Integrated Exact Online through a rate-limited, queued API client that creates inspections from sales orders and backfilled up to six years of historical orders.
- Built a job scheduler for inspection creation, document ingestion, status sync and failed-order retries, plus automated reminders 6 and 1 months before periodic inspections fall due.
- Added distance-based inspector planning, multi-factor authentication for admins, and customer-managed third-party access so clients can invite their installers to an inspection.
- Built document processing (regex pattern recognition, PDF parsing, Puppeteer-generated reports, bulk uploads to S3-compatible storage) and data-scraping tools with localized CSV exports.
- Led end-to-end development of the Evka Chatbot, from ERD design and authentication through to production infrastructure, and designed the move to a multi-tenant SaaS architecture.
- Set up GitHub Actions deployments, structured logging and Discord alerting for production, and debugged and deployed meetmiddelen.eu, a production WordPress site.

Team Lead, Backend Engineering · Snapnet Solutions

Sep 2022 – Jun 2025

Nigeria · Full-time · Promoted from Backend Engineer · hcmatrix.com, app.hcmatrix.com

- Led the transformation of HCMatrix from a monolith into a scalable, multi-tenant SaaS platform, and led the team that shipped the HCMatrix v3 MVP.
- Designed a microservices architecture that cut development time by 59% and sped up bug resolution, with service isolation keeping the platform up during partial outages.
- Built the payroll module, with automated salary calculation, multi-level approval workflows and integrated disbursements, cutting company operating costs by 23.4%.
- Set up CI/CD with Jenkins and monitoring with Prometheus and Grafana; designed data models across multiple services.
- Ran backend training programs and mentored junior engineers and interns while running v2.5 maintenance alongside new feature work.

Backend Engineer · Quocreo

May 2024 – Oct 2024

Nigeria · Remote · Contract

- Built a salary-structure engine that computes pay across multi-tier grade levels and steps, with dynamic component management.
- Built a projection system that simulates the financial impact of percentage-based changes and shows the effect in real time, so HR teams can make data-driven decisions.
- Designed a database schema for complex salary structures and their history, and a library of reusable components that cut development time by 45%.
- Wrote system documentation that shortened onboarding for new engineers.

Backend Developer · Varroe

Sep 2022 – Dec 2023

Canada · Remote · Contract · Part-time

- Designed and built a Node.js/TypeScript microservices architecture that made third-party API integrations straightforward.
- Optimized database architecture and queries, making query responses 50% faster.
- Introduced a testing framework and debugging protocols that cut bug resolution time by 60%.
- Built shared libraries and coding standards that cut feature iteration time by 40%.

Lead Software Developer · Cpaat Consulting Limited

Jun 2023 – Nov 2023

Nigeria · Contract · gate-house.com

- Led the redesign of GateHouse, improving application functionality by 60%.
- Delivered a mobile app for residents and security staff that cut hardware costs by 43%.
- Built CI/CD pipelines that cut deployment time by 95%, and ran the handover and hiring of my replacement.

Backend Developer · Platr

Jan 2021 – Sep 2022

Nigeria · Part-time · platr.ng

- Optimized the core JavaScript codebase, improving application performance by 55%.
- Re-architected core services in Node.js, reducing system complexity by 35%.
- Built RESTful APIs for dynamic datasets, improving data-processing efficiency by 50%.
- Wrote developer guides that cut onboarding time for new engineers by 45%.

FREELANCE PROJECTS

Independent Backend Engineer · Freelance

Remote

Sole backend engineer for three live consumer platforms, from data model and auth to payments and deployment.

- **MyEasyVest** (myeasyvest.com): 698 of 702 commits on an investment platform with multi-currency wallets, fixed and flexible plans and utility payments. Built an hourly interest and maturity engine, Smile ID biometric KYC, payments across KM Payment, Rolla virtual accounts and Juicyway NGN/USDT payouts with idempotent webhooks, ClubKonnnect utility purchases with atomic refunds and rebates, 15 BullMQ workers on Redis, and an admin back office with 69 granular permissions, audit trail and Prometheus metrics.
- **The Grind Academy** (thegrindacademy.co): 311 of 316 commits on an online academy with 1,000+ students. Built recurring Paystack billing on saved card authorizations with Flutterwave support, scheduled renewals, expiries and reminder emails, a Telegram bot that grants and revokes paid-community access, course delivery on Bunny CDN with PDF certificates, a referral program with automated Paystack payouts, and CI/CD with GitHub Actions.
- **AutoX** (lambicautox.com): 203 of 205 commits on a vehicle-services marketplace with 94+ providers and 1,889+ waitlist members. Built the APIs behind the iOS and Android apps and a merchant platform with business KYC and staff roles, five request workflows (rentals, repairs, insurance, license renewals) with status histories and ratings, a CSV-imported vehicle and equipment catalog, Paystack payments with verified webhooks and Firebase push notifications.

CURRENTLY BUILDING

- **Tallie** (tallie.app): A restaurant operating system of seven connected apps: menu and stock, orders and payments, kitchen display, staff and payroll, and reports. *In active development.*
- **Budgeting app**: A personal budgeting app, co-built with a friend. *Launching January 2027.*

EDUCATION

B.Sc. Computer Science · American University of Nigeria

Aug 2016 – May 2020