

# IBRAHIM AKANMU

Backend Developer & DevOps Engineer

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## PROFESSIONAL SUMMARY

Backend Engineer with 3 years of experience building and scaling data-driven platforms using FastAPI, Django, Node.js, and PostgreSQL, with a strong foundation in distributed API design, authentication frameworks, and performance-focused backend architecture. Skilled in designing resilient backend services with fault-tolerant request handling, optimized data access patterns, and efficient resource utilization across high-traffic systems. Experienced in strengthening platform stability through CI/CD automation, containerized deployment, observability practices, and cloud infrastructure. Background spans fintech, networking, and property platforms, delivering secure, reliable, and maintainable backend systems that support real business growth. Known for an ownership mindset, strong debugging discipline, and a focus on scalability, reliability, and engineering best-practice implementation

## CORE TECHNICAL STACK

### Backend & APIs

FastAPI, Django, Flask, Node.js, Express.js, RESTful API Design, Authentication & Authorization, Background Jobs (Celery)

## **Databases**

PostgreSQL, MySQL, MongoDB, SQL Optimization, Data Modeling, Migrations

## **DevOps & Infrastructure**

Docker, Jenkins, CI/CD Pipelines, Bash Scripting, Server Management, Monitoring, Nginx, Cloud Deployment (AWS, GCP, DigitalOcean)

## **Programming Languages**

Python, JavaScript, TypeScript, C

## **Additional Areas**

Caching (Redis), Logging & Monitoring, API Documentation, Agile Collaboration, Automation, Scalability Optimization

# **PROFESSIONAL EXPERIENCE**

## **Backend Developer**

**Unyte.Africa** — Remote  
**March 2025 – Present**

- Developing backend services and API endpoints supporting core platform features and user workflows.
  - Implementing secure authentication, session handling, and data flow between services.
  - Working with PostgreSQL to improve data integrity, indexing, and query performance.
  - Collaborating with product and frontend teams to deliver reliable backend functionality.
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## **DevOps Engineer (Contract)**

**Capitaa — Remote**

**March 2024 – November 2024**

- Managed cloud-hosted infrastructure to ensure uptime, scalability, and secure deployment.
  - Automated deployment processes using Jenkins, Docker, and Bash scripting, reducing manual effort.
  - Configured Nginx, firewalls, and monitoring tools to improve system reliability and security.
  - Integrated Datadog for real-time performance metrics, alerting, and server health tracking.
  - Improved deployment consistency and reduced production incidents through automation.
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## **Backend Developer & DevOps Operator**

**Fixit Technology Ltd., Lagos, Nigeria**

**November 2022 – March 2024**

- Built and maintained backend services using Node.js and Express.js, improving application performance and API response times.
- Integrated MySQL, PostgreSQL, and MongoDB databases to support scalable data operations.
- Conducted debugging, troubleshooting, and code reviews to ensure high code quality.
- Supported CI/CD deployment processes using Jenkins and automated scripts.
- Collaborated with distributed teams to deliver features and resolve platform issues efficiently.

## PROJECTS

### Corporate Professionals Web Platform — Backend System

FastAPI, SQLAlchemy, PostgreSQL, Redis, Celery

- Engineered a production-grade authentication and authorization system with secure email verification, password reset flows, token lifecycle management, and session integrity aligned with industry standards.
- Architected core user modules including professional profiles, posting workflow, reactions, comments, and feed personalization, ensuring scalable data access patterns and clean separation of concerns.
- Implemented feed delivery optimization using pagination, Redis-backed caching, and database indexing, reducing query latency and improving content retrieval performance under growing user load.
- Designed and shipped an advanced professional directory search with multi-parameter filtering (skills, industry, location), optimized query execution plans, and ranking logic for relevant discovery.
- Added platform reliability mechanisms including **rate limiting**, **request throttling**, and **circuit-breaker patterns** to protect upstream dependencies and maintain system stability during peak traffic.
- Integrated background task processing with Celery for notification dispatch, activity tracking, and asynchronous workloads, improving responsiveness and user experience.
- Collaborated using Git-based workflows, API documentation, code reviews, and iterative delivery aligned with modern engineering practices.

## Fintech API Integration

### Node.js, Express.js, PostgreSQL, Redis, JWT, Paystack/Banking APIs

- Designed and developed secure RESTful API endpoints supporting user authentication, account dashboards, transaction history retrieval, and funds transfer workflows with strong data validation and authorization controls.
- Optimized PostgreSQL queries, indexing, and data access patterns to reduce transaction lookup latency and improve real-time balance accuracy for high-traffic financial operations.
- Implemented structured error handling, audit logging, and request tracing to enhance system reliability, fraud visibility, and compliance-aligned accountability.
- Added resilience mechanisms including **rate limiting**, **request throttling**, and **circuit-breaker safeguards** to protect financial APIs and prevent cascading failures during high-load or third-party downtime.
- Integrated Redis caching and session management to improve performance and reduce repeated expensive transactional queries.
- Collaborated with product and compliance stakeholders to ensure API behavior aligned with financial workflows, user experience expectations, and regulatory handling requirements.

## Real Estate Rental WebApp

### Node.js, Express.js, PostgreSQL, Paystack, JWT, Mail Services

- Designed and developed a property rental platform enabling direct landlord-tenant engagement, removing intermediary reliance and improving listing transparency.
- Implemented secure rent payment processing using Paystack, including transaction verification, callback handling, receipt generation, and failure recovery flows.

- Engineered advanced property discovery features with multi-criteria filtering, geo-search considerations, saved searches, and personalized listing retrieval.
- Built user dashboards for landlords and tenants, supporting listing management, rental activity tracking, and inquiry flows.
- Developed authentication with email verification, secure credential handling, and session protection aligned with best practices.
- Optimized database schema, indexing, and query execution to improve listing retrieval performance and browsing experience under increasing data volume.
- Contributed to platform stability through logging, structured error handling, and incremental feature deployment.

## **Event Planning Platform — Backend System**

### **FastAPI, PostgreSQL, Celery, Google Cloud Storage, Webhooks, Notifications**

- Architected and developed a backend system powering collaborative event planning, supporting multi-user coordination, task management, scheduling, budgeting, and real-time interaction.
- Built core modules including event creation, guest invitations, RSVP tracking, task assignment workflows, deadline tracking, and shared planning features.
- Implemented asynchronous background processing using Celery for notifications, reminders, media handling, and high-volume activity events, improving responsiveness and scalability.
- Integrated Google Cloud Storage for secure media uploads, file management, and optimized asset delivery for mobile and web clients.
- Designed and delivered notification pipelines (email and in-app), with queueing safeguards, retry logic, and delivery monitoring.
- Supported advanced features such as vendor recommendations, event discovery, and collaboration tools (comments, polls, shared updates).
- Ensured reliability through API documentation, structured error handling, deployment consistency, and data integrity controls.

## EDUCATION

**Bsc., Early Childhood Education**

University of Lagos, Nigeria 2025

## CERTIFICATIONS

- ALX Africa — Full-Stack Software Engineering (2024)
- Power Learn Project — Web Development & Python (2024)

## PROFESSIONAL MEMBERSHIP

Google Developer Student Club (GDSC), Lagos Chapter