

Douglas Chiemela N.

Senior Backend Engineer (Python/Django)
Remote (UTC+1)

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PROFESSIONAL SUMMARY

Senior Backend Engineer with over four years of experience designing and scaling backend systems using Python and Django. Experienced across fintech, IoT, e-commerce, and SaaS domains, with a focus on high-performance API architecture, secure financial workflows, database optimization, and real-time data processing.

Skilled in building modular backend systems, implementing Redis-based caching strategies, optimizing PostgreSQL queries through indexing and execution analysis, and containerizing services using Docker for cloud deployment. Experienced in distributed and remote team environments.

CORE TECHNICAL SKILLS

Backend & Architecture

Python, Django, Django REST Framework
RESTful API design
JWT authentication and RBAC
Modular architecture and service-oriented design
Concurrency-safe database transactions

Performance & Scalability

ORM optimization (select_related, prefetch_related)
Database indexing and execution plan analysis
Redis caching and pub/sub patterns
High-read endpoint performance tuning

Databases

PostgreSQL, MySQL, Redis

DevOps & Cloud

Docker
CI/CD workflows
AWS fundamentals (EC2, S3)
Git

Security & Payments

Secure payment integrations (Paystack, NowPayments)
Webhook validation

Transaction integrity enforcement
Input validation and access control

PROFESSIONAL EXPERIENCE

Backend Engineer

Africa Manufacturing Innovation Hub
Jan 2024 – 2025

- Designed backend services supporting IoT-driven automation systems.
 - Implemented real-time device communication using MQTT and Redis pub/sub.
 - Introduced structured caching strategies to reduce database load on high-frequency queries.
 - Optimized PostgreSQL performance using indexing and relational query improvements.
 - Ensured transactional integrity during concurrent device updates using atomic operations.
 - Containerized services using Docker for consistent deployment workflows.
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Backend Engineer

Carrsly Inc.
Jan 2022 – Dec 2023

- Developed and maintained a secure investment transaction platform.
 - Optimized high-traffic API endpoints through ORM restructuring and indexing strategies.
 - Implemented JWT authentication and role-based access control.
 - Designed transaction-safe workflows preventing race conditions during concurrent investments.
 - Integrated secure payment verification and webhook validation mechanisms.
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Backend Developer

Ashpot
Jan 2021 – Dec 2021

- Built modular Django backend systems across education, food-tech, and marketplace platforms.
 - Developed RESTful APIs powering administrative and customer dashboards.
 - Applied normalization and indexing strategies to improve performance in user-heavy modules.
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SELECTED PROJECTS

Thrifto – Digital Contribution & Savings Platform

(Fintech System)

- Designed backend architecture for a digital savings and rotating contribution platform.
- Implemented secure contribution cycles with transaction-safe database operations.
- Designed wallet-like ledger tracking for deposits, withdrawals, and member allocations.
- Enforced concurrency control to prevent double-spending and race conditions.
- Structured role-based permissions for administrators and members.

Technologies: Python, Django, DRF, PostgreSQL

AcctMarket – Digital Product Marketplace

- Developed a full-stack e-commerce platform supporting both crypto and traditional payments.
- Designed referral reward logic using atomic transactions.
- Implemented secure digital product delivery with tokenized access control.
- Integrated Paystack and NowPayments with verified webhook handling.
- Containerized the application using Docker for deployment consistency.

Technologies: Python, Django, DRF, JavaScript, Bootstrap, PostgreSQL, Docker

TravelMate – Flight & Accommodation Booking Platform

- Built backend APIs integrating with third-party flight and accommodation providers.
- Designed structured booking workflows and payment processing logic.
- Implemented relational query optimization for search-heavy endpoints.
- Developed responsive frontend dashboards connected to backend services.

Technologies: Python, Django, DRF, JavaScript, PostgreSQL

OnSite – Workforce Management System

- Designed backend services enabling real-time engineer task tracking.
- Built dashboard APIs optimized for high-read managerial views.
- Structured role-based access systems for administrators and field engineers.
- Improved performance through query tuning and relational optimization.

Technologies: Python, Django, DRF, JavaScript, PostgreSQL

Watti – IoT Monitoring Platform

- **Developed backend services for real-time IoT device monitoring using MQTT.**
- **Implemented Redis-based message handling for telemetry ingestion.**
- **Designed scalable device-data processing workflows.**

Technologies: Python, Django, Redis, MQTT

EDUCATION

Higher National Diploma (HND), Computer Science
Abia State Polytechnic