

OLANREWAJU ALABA

SENIOR BACKEND / FULL-STACK SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Software Engineer with 5+ years of experience building and operating production software across marketplaces, fintech, SaaS, e-commerce, edtech, and blockchain products. Strong backend focus in Python, Django, Django REST Framework, PostgreSQL, Redis, and Celery, with hands-on ownership of payment systems, asynchronous processing, third-party integrations, authentication/authorization, real-time messaging, and AWS infrastructure. Experienced in leading backend architecture and taking features from design through development, testing, deployment, debugging, and post-launch support, with additional full-stack capability in React, Next.js, and TypeScript.

CORE TECHNICAL SKILLS

Backend — Python, Django, Django REST Framework, FastAPI, REST APIs, Celery, Redis, asynchronous/background processing

Frontend — React, Next.js, TypeScript, JavaScript, Tailwind CSS

Data — PostgreSQL, MongoDB, SQLite, Firebase/Firestore, Neon

Cloud and Infrastructure — AWS (EC2, S3, Lambda), Docker, DigitalOcean, Vercel, Netlify, production deployment, backups

Payments & Integrations — Stripe, PayPal, Paystack, BNPL, wallets, multi-currency payments, third-party APIs, email automation

Security & Other — Authentication, authorization, RBAC, JWT, Solidity, smart contracts, EVM/blockchain, Git, Postman, Swagger

Projects

Nexapay

- Built the platform independently with Next.js, TypeScript, Solidity, MongoDB, and EVM blockchain infrastructure.
- Implemented cross-chain payments using Stargate bridges across multiple EVM networks with testnet and mainnet support.
- Developed Solidity smart contracts for payment processing, ERC-20 token support, configurable fee collection, network detection, and owner-controlled configuration.
- Built JWT authentication, transaction tracking, analytics, and a responsive payment interface; documented deployment, testing, environment configuration, and security considerations.

Essay Revive

- Built an AI-powered writing application using Next.js, TypeScript, OpenAI, Stripe, MongoDB, and Node.js cryptography.
- Implemented AI content generation, preview-before-payment, Stripe Checkout, payment verification, protected content retrieval, and document download.
- Implemented AES-256-CBC encryption for generated content stored before payment completion and structured API routes for generation, checkout, and verification.

MathPoint

Built with Next.js, TypeScript, MongoDB, Tailwind CSS, and Stripe to support mathematics learning and problem-solving workflows.

AssetFlow

Built with Next.js, Firebase, Solidity, Tailwind CSS, and Vercel; implemented asset listings, ownership transfers, secure transaction flows, and real-time pricing.

YCSYH

Built with Next.js, TypeScript, and Stripe; implemented checkout, automatic digital-file delivery, and PDF license generation.

PenPages

All-in-one platform for poets, bloggers, and authors to create and share content seamlessly.

Work Experience

Lead Engineer, Instasew

2024 – Present

- Owned backend architecture and production delivery for a global fashion marketplace, primarily using Python, Django, Django REST Framework, PostgreSQL, Redis, Celery, and AWS.
- Designed and implemented core marketplace workflows covering customer jobs, designer bidding and negotiation, contracts, reviews, fulfilment, catalogues, notifications, subscriptions, and administrative operations.
- Built a customer-to-designer bidding and negotiation system, enabling customers to create jobs, receive designer proposals, negotiate pricing, and finalize agreements.
- Integrated Stripe and PayPal payments and extended the platform with wallet-based payouts, bank withdrawals, BNPL, payment reconciliation, payment history, and multi-currency transactions.
- Implemented Celery and Redis for asynchronous and scheduled processing across payments, notifications, and operational workflows, and integrated DHL shipping and manual carrier tracking for order fulfilment.
- Developed real-time messaging, notifications, and identity-verification workflows, including third-party verification and manual review processes to improve marketplace trust and designer ranking.
- Designed and managed AWS test and production environments, database backups, S3 media storage, deployments, and backend infrastructure; independently handled production releases and improved reliability following an early database-loss incident.
- Worked with a small engineering team of frontend developers and interns, providing backend technical direction and coordinating delivery for a platform serving approximately 200 users across multiple countries.

Backend Engineer, InstinctHub

Nov 2023 – May 2024

- Led backend development with Python, Django, and Django REST Framework across multiple products, contributing from design and implementation through testing, deployment, debugging, and post-launch support.
- Integrated Paystack and PayPal payment workflows and supported secure transaction processing.
- Shipped the Scoreboard feature for InstinctHub's edtech platform to improve user engagement and learning experience.
- Contributed backend development to The Youth Entrepreneurship Summit and Expo Nigeria (Yesen), a growth platform for Micro, Small and Medium Enterprises, and to InstaSew and other projects delivered by the team.
- Built a USSD application using the Africa's Talking platform to support mobile/USSD-based user workflows.

Backend Engineer(contract), Bizconnect

2024 – 2024

- Built and independently managed the backend and AWS infrastructure for a lead-generation and marketing platform that collected and organized prospect data through a third-party data provider when direct LinkedIn API access was unavailable.
- Developed campaign and lead-data management workflows, user roles and permissions, subscription management, and automated email outreach.
- Integrated Stripe for subscription billing and implemented email automation workflows for marketing campaigns.
- Owned backend deployment and infrastructure management on AWS.