

ROLAND UCHENNA OODO

Full-Stack Engineer · Node.js · Next.js · PostgreSQL · Production Infrastructure

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PROFESSIONAL SUMMARY

Full-stack engineer building Node.js and Next.js production systems for startups and growing businesses. End-to-end ownership across every engagement - database design, API architecture, frontend, payment integration, VPS deployment, and monitoring. Has shipped AI features with GPT-4o, led full codebase migrations, and provisioned and hardened the production infrastructure that runs those systems. Not just the code - the system.

TECHNICAL SKILLS

Backend: Node.js, Express.js, TypeScript, JavaScript (ES6+), RESTful API Design

Frontend: React.js, Next.js, Tailwind CSS, Styled Components, HTML5, CSS3

Databases: PostgreSQL, MongoDB, Redis, Query Optimisation, Data Modelling

Auth & Security: JWT, Session Management, RBAC, Google OAuth, OTP, Data Encryption

Infrastructure: VPS Provisioning (Ubuntu), Nginx, SSL/TLS, fail2ban, SSH hardening, DNS, Firewall config, PM2

Payments: Payoutstack (escrow, webhooks, subscriptions), Stripe (checkout, subscriptions), Flutterwave

AI & Integrations: OpenAI API (GPT-4o), Cloudinary signed uploads, Resend transactional email

DevOps & Tools: Git, GitHub Actions, CI/CD pipelines, Zero-downtime deployments, Sentry, Docker

PROFESSIONAL EXPERIENCE

Backend Engineer · Locoomo (Contract, Remote) 2026 – 2 months

Cloud warehousing & last-mile logistics platform, Lagos pilot · sole backend engineer

- ▶ Built a modular-monolith NestJS/TypeORM backend for a parcel logistics platform - event-sourced order state machine with an append-only audit log and guarded transitions, meeting a 7-year regulatory retention requirement
- ▶ Designed PostGIS-backed proximity search and pessimistic capacity locking for pickup/drop-off hubs - reservations with a time-boxed hold at checkout, preventing overbooked physical capacity
- ▶ Integrated Payoutstack hosted-redirect checkout behind a provider-agnostic adapter, with raw-body HMAC-SHA512 webhook verification, a shared Postgres-backed idempotency service, and a reconciliation poller that recovers payments from dropped webhooks
- ▶ Built a transactional outbox with a scheduled poller for notification delivery over SMTP - durable retry with exponential backoff, decoupled from the request/response cycle, no external queue required
- ▶ Implemented self-registration and admin-approval onboarding for two operator roles, including Cloudinary-signed private document uploads verified server-side via the Cloudinary Admin API before being trusted
- ▶ Enforced module boundaries with dependency-cruiser across 10 feature modules (identity, nodes, riders, payments, orders, handoffs, disputes, admin, notifications) - verified in CI, not just documented

Co-Founder & Technical Lead · Servyst 2025 – Present

AI-powered service marketplace, Nigeria · sole technical decision-maker · built alongside contract work

- ▶ Designed and built the full backend API and React/Next.js frontend from zero - provider dashboards, customer marketplace, booking system, and Payoutstack escrow payments held until work is confirmed complete then released to the provider with full audit trail
- ▶ Designed the GPT-4o system prompt and integration logic for AI-driven provider recommendations, matching customers to service professionals by service type, location, and profile data
- ▶ Built a dispute resolution and rating system, processed before escrow release - zero manual reconciliation

- ▶ Provisioned and hardened the production VPS: Nginx reverse proxy, SSL/TLS, fail2ban, SSH hardening, firewall rules, DNS; monitors and maintains ongoing with zero downtime incidents
- ▶ Implemented Redis for performance-critical requests; owns all architecture, infrastructure, and product decisions

Full-Stack Developer · TRIIBE (Remote) 2025 – 2026

EdTech platform · full-time · sole technical lead, directed one junior developer

- ▶ Inherited a static HTML/CSS site; made the technical decision to migrate to a MERN stack and led the full rebuild - directed one junior developer through code review and architecture decisions throughout
- ▶ Designed the data model and application architecture: social feed, course management, job board (268 active listings), student progress tracking, and role-based dashboards for students, recruiters, and admins
- ▶ Integrated Flutterwave and Pystack with webhook validation, idempotency keys, and race condition handling to prevent duplicate charges across concurrent requests
- ▶ Provisioned and hardened a Contabo VPS from scratch: Nginx, SSL/TLS, fail2ban, disabled root login and password SSH auth - maintained and monitored ongoing
- ▶ Set up Redis caching for high-frequency reads, Sentry for error monitoring, and page-level SEO and analytics

Full-Stack Developer · LoubbyAI (Contract) 2025 · 6 months

AI-powered career platform · ~100-person company across engineering, product, and operations

- ▶ Owned end-to-end delivery of an AI job application feature: resume parsed server-side, sent with job description to GPT-4o, system instructions designed to score resume-to-job match and surface specific weaknesses
- ▶ Built an AI resume editor behind a payment gate: weak sections flagged on load, GPT-4o suggestions shown inline with reasoning, individual items replaceable or dismissible, updating in real time without a page reload
- ▶ Owned frontend and backend of an agent marketplace onboarding flow: registration, Google OAuth, phone OTP, forgot-password, and separate profile onboarding for sellers and buyers
- ▶ Built a school leavers job board frontend: filtering, search, and pagination against a dedicated jobs API, matching Figma to production pixel-accurately

Full-Stack Developer · The Factory Place (Contract) 2023 – 2024

Internal factory management system · greenfield build

- ▶ Joined with no existing web presence; received a Figma design and built the full application from scratch - data modelling, UI, backend APIs, and internal tooling
- ▶ Provisioned and configured a Hostinger VPS: server environment setup, deployment configuration, brought the product from Figma to production independently
- ▶ Reduced API response time by ~20% through endpoint profiling and targeted query optimisation
- ▶ Mentored one intern through the build phase while handling production fixes and releases independently

KEY PROJECTS

Client Acquisition System · oodoroland.com 2025 – Present

Production-grade freelance operating system - booking, proposals, invoices, and payments

- ▶ Built a multi-step booking engine with real-time calendar availability, timezone detection, call type selection, and contextual intake form - integrated with Google Calendar for automatic invite delivery
- ▶ Built a proposal creator and client approval system: admin creates scoped proposals, client receives a private link, approves with one click, and invoice is auto-generated and sent via Resend - zero manual step between approval and payment request
- ▶ Integrated Stripe (international) and Pystack (NGN) into a unified payment flow with multi-currency support, webhook handling, and automatic currency routing based on proposal currency

- ▶ Built a script marketplace with product listings, free and paid checkout flows, Cloudflare R2 signed download URLs, post-purchase email delivery, and a review system triggered by purchase confirmation
- ▶ Deployed on Ubuntu VPS: Nginx, PM2, GitHub Actions CI/CD with zero-downtime deploys, automated daily backups, and uptime monitoring - all managed as a single production system

Kriwheel · Nigerian Tricycle Rider Community & Safety Platform

Community platform for keke napep riders - real-time road incident reporting with incentive model

- ▶ Built the full platform from scratch: Next.js frontend, Node.js API, PostgreSQL database - riders report road hazards, police checkpoints, and accidents in real time; fellow riders in the area receive the alert immediately
- ▶ Designed a verified reporting incentive system - riders earn per verified incident report, creating a self-sustaining data quality loop where the community validates each other's submissions before rewards are released
- ▶ Built a mobile-optimised rider UI as the primary surface - the platform's audience is keke napep operators, most of whom access via low-end Android devices on slow connections; optimised for performance and offline resilience
- ▶ Built an admin dashboard for report verification, reward management, rider management, and incident analytics - giving operators visibility into platform health and flagged content
- ▶ Stack: Next.js, React, TypeScript, Node.js, PostgreSQL - full-stack ownership including deployment

Cross Border Logistics · Logistics Management System crossborderlogisticsinc.com

End-to-end logistics management platform for a cross-border freight and shipping company

- ▶ Built a shipment tracking system with real-time status updates across the full logistics lifecycle - order placed, in transit, customs clearance, out for delivery, delivered - visible to both customers and internal operations staff
- ▶ Designed and built role-based dashboards for three distinct user types: admin (full operations visibility, shipment management, customer management), staff (assigned shipment handling and status updates), and customer (their own shipment history and live tracking)
- ▶ Built an order management system covering shipment creation, freight cost calculation, document uploads, and status progression - giving the operations team a single interface for managing all active shipments
- ▶ Implemented JWT authentication with role-based access control - each role sees only the data and actions relevant to their function, with no cross-role data exposure
- ▶ Stack: Node.js, Express.js, MongoDB, EJS - server-rendered frontend with full backend API, deployed to production

EDUCATION

B.Sc. Computer Science · University of Nigeria, Nsukka · July 2023

TECHNICAL WRITING

Personal blog at oodoroland.com/writing - production engineering write-ups covering architecture decisions, incident post-mortems, and infrastructure lessons from real systems. Contributing writer on Medium (@rocodeify). Published a production VPS deployment playbook - 17-chapter guide covering go-live, security hardening, incident runbooks, and operational checklists.