

CHINWENDU ENYINNA

Backend Engineer (Node.js / TypeScript)

chinwenduenyinnap@gmail.com | +234 813 003 2382 | [LinkedIn](#)

SUMMARY

Backend engineer with 4 years building and maintaining scalable Node.js and TypeScript backend systems and RESTful APIs for high-traffic platforms that process payments. Work covers payment gateway integration (Paystack, Stripe), wallet and payout flows, refunds, settlement and reconciliation, transaction integrity and audit trails, and secure coding in line with OWASP practices. Strong on production reliability: end-to-end observability, logging and monitoring, root cause analysis on live incidents, and query optimisation that cut API response times by 35%. Currently completing a Master of Information Technology (Artificial Intelligence specialisation) at Miva Open University.

EXPERIENCE

Shortlet – Lead Backend Engineer (Remote) May 2025 – Aug 2026

- Designed, built and maintained backend services and RESTful APIs in Node.js, NestJS and TypeScript for a short-term rental platform serving 10,000+ monthly users, improving API response times by 35% through query optimisation and Redis caching.
- Integrated Paystack and Stripe to handle card and bank-transfer collections, host wallet balances, payouts, refunds and settlement, using idempotency keys and webhook signature verification to keep transaction state consistent under retries and gateway failures.
- Built reconciliation processes that matched internal transaction records against gateway settlement reports, with audit trails across financial operations so every balance change could be traced end to end.
- Reduced payment-gateway production defects by 35% through unit and integration testing, cutting failed transactions and customer escalations.
- Applied secure coding practices aligned with OWASP guidance: request-level input validation and sanitisation, JWT authentication with role-based access control, rate limiting, secrets handling, and dependency vulnerability scanning in the CI pipeline.
- Implemented end-to-end observability with OpenTelemetry, Prometheus, Pino, Tempo and Loki, tracing booking and payment workflows across HTTP requests, databases, BullMQ queues, webhooks, events and schedulers, and used it to diagnose production incidents, run root cause analysis and ship preventive fixes.
- Optimised MongoDB and PostgreSQL schemas and indexing strategies, reducing peak-time query latency by 25% and supporting continued platform growth.
- Ran services on Google Cloud and Kubernetes with Docker and GitHub Actions CI/CD, working with DevOps on deployment reliability and uptime.
- Built an agentic AI travel assistant and a RAG-powered property search engine (NestJS, Redis, MongoDB) that let users search live inventory conversationally and move from discovery to booking.
- Took part in sprint planning, architecture discussions and peer code review, and worked with product managers, designers, QA engineers and frontend developers to ship features on schedule.
- Mentored 2 junior engineers on API design, testing and code review standards.

Crowdapp – Backend Engineer (Remote) Nov 2022 – Aug 2025

- Built and maintained RESTful APIs for Crowd, a user research and customer intelligence platform, improving response times through caching and query optimisation.
- Implemented JWT authentication and role-based access control, improving application security and user session reliability.
- Engineered an AI Chat and RAG feature that processed analytics data from multiple user research sources and delivered real-time insights, reducing time-to-insight by 35%.
- Integrated third-party APIs and automated workflows, reducing manual processes by 30%.
- Took part in code reviews and led technical design discussions, improving code quality and maintainability.

SKILLS

Languages: TypeScript, JavaScript, Python

Backend and APIs: Node.js, NestJS, Express.js, AdonisJS, RESTful API design, microservices, event-driven architecture, webhooks

Databases and ORM: PostgreSQL, MySQL, NoSQL (MongoDB), Redis, Prisma, Sequelize

Message Queues and Caching: BullMQ, Redis, background job processing, schedulers

Payments and Fintech: Paystack, Stripe, wallet management, transfers, collections, settlement, reconciliation, transaction integrity, audit trails, idempotency

Security: OWASP secure coding practices, input validation and sanitisation, JWT and RBAC, rate limiting, secrets handling, dependency vulnerability scanning

Cloud and DevOps: Google Cloud Platform, AWS, Docker, Kubernetes, GitHub Actions, CI/CD, Git

Observability and Monitoring: OpenTelemetry, Prometheus, Grafana, Loki, Tempo, Pino, structured logging, distributed tracing, root cause analysis

Quality and Process: Unit and integration testing, peer code review, sprint planning, collaboration with QA engineers, technical documentation

Artificial Intelligence: RAG, AI API integration, AI agents and automation

Soft skills: Analytical problem-solving, communication, collaboration, attention to detail, mentoring, adaptability

Certification: Kubernetes and Cloud Native Associate (KCNA), The Linux Foundation, September 2025

EDUCATION

Miva Open University – Master of Information Technology, Artificial Intelligence specialisation (in progress, expected 2027), Abuja, Nigeria

AltSchool Africa – Diploma in Software Engineering, Lagos, Nigeria (Feb 2022 – Jun 2023)

Nnamdi Azikiwe University, Awka – Bachelor of Science, Applied Biochemistry (2016 – 2021)

PUBLICATIONS

AI Engineering DeepDive Newsletter – bi-weekly newsletter with 300+ subscribers on how AI products are built under the hood

Medium – backend architecture and AI-focused articles

freeCodeCamp – Communication Patterns on the Backend