FAVOUR EKECHUKWU IKECHUKWU

SOFTWARE ENGINEER | BACKEND & SYSTEMS ARCHITECTURE

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience engineering and operating production applications across SaaS, healthcare and financial technology. Specialises in backend engineering, API design, database architecture, payment integrations and distributed workflows. Has taken products from technical design through implementation and cloud deployment, including TallyHouse, a live inventory and credit-sales platform for local businesses. Combines hands-on engineering with technical leadership, pragmatic system design and end-to-end product ownership.

TECHNICAL EXPERTISE

Backend Engineering: PHP, Laravel, Node.js, Express.js, NestJS, TypeScript

API & Integrations: REST API design, payment gateways, webhooks, authentication, third-party integrations

Data & Storage: MySQL, PostgreSQL, MongoDB, Redis, Prisma, database design and migrations

Architecture: Multi-tenancy, modular architecture, transaction management, asynchronous processing, MVC

Cloud & Delivery: AWS, Laravel Cloud, Vercel, Git, CI/CD, production deployment and troubleshooting

Frontend & Product: React, Vue.js, Next.js, Tailwind CSS, Progressive Web Apps

PROFESSIONAL EXPERIENCE

Backend Engineer & Team Lead | Green Tech Communication & Network Ltd.

November 2023 – August 2026

- Lead backend engineering across business-critical applications, translating product requirements into maintainable services, APIs and database structures.
- Architect and maintain RESTful APIs and modular application systems using PHP, Laravel, Node.js and relational databases.
- Design multi-tenant systems with tenant-aware data access, role-based permissions and workflows that support multiple organisations.
- Build transaction-sensitive workflows and external integrations, including payment processing, webhook handling and reliable state updates.
- Own database design, schema evolution, migrations, query troubleshooting and production issue resolution.
- Deploy and maintain cloud-hosted applications; collaborate with frontend engineers and stakeholders to deliver complete product features.
- Provide technical direction through architecture decisions, code reviews, implementation guidance and team coordination.

SELECTED PROJECTS

TallyHouse — Inventory & Credit-Sales SaaS

Laravel 13 • PHP • PostgreSQL • React • TypeScript • Paystack • PWA • Laravel Cloud • Next.js

- Designed, built and deployed a live SaaS platform for local businesses to manage products, inventory, sales, customer credit and sales return.
- Implemented stock movement workflows, product management, opening stock handling and transactional safeguards to maintain inventory accuracy.
- Built cash and credit checkout, invoice and receipt workflows, customer debt tracking and payment recording.
- Developed business dashboards covering sales, money received, outstanding credit, stock value and low-stock indicators.
- Implemented subscription plans and billing workflows with Paystack integration, alongside tenant-aware access control and store-scoped data.
- Built a React Progressive Web App with Workbox-based service-worker precaching and browser push-notification support.
- Delivered the production application and public marketing website, with the application and API deployed on cloud infrastructure.

  Live: app.usetallyhouse.com • usetallyhouse.com

TaskForge — Distributed Job Processing System

NestJS • TypeScript • BullMQ • Redis • PostgreSQL • Prisma

- Built an asynchronous job-processing system with retries, exponential backoff, delayed execution, concurrency controls and rate limiting.
- Implemented dead-letter handling, idempotent job creation, cancellation, execution history and stalled-worker recovery.
- Designed a handler-based architecture for independent processing of different job types.

Modular Payment Gateway API

PHP • Laravel • Paystack • Flutterwave

- Designed a unified payment API using provider abstraction to integrate multiple gateways without coupling core business logic to individual providers.
- Standardised provider responses and implemented webhook processing and retry mechanisms for transaction updates.
- Used queue-based processing to decouple payment operations from request handling.

Ticketing Platform API

Node.js • Express.js • Prisma

- Built APIs for ticket tiers, orders and transactions, including payment workflows, order validation and transactional consistency.

EDUCATION

Babcock University — B.Sc. Software Engineering, 2023

Archbishop Junior Seminary — WAEC, 2016