

# FORTUNATUS OLUWADARA ADEGOKE

Senior Backend Engineer

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## SUMMARY

Senior Backend Engineer with 4+ years delivering production-grade APIs, real-time systems, and fintech platforms across healthcare, government, gaming, and education verticals. Shipped 10+ production systems as sole or lead engineer — including a hospital management platform with 371 action classes, an immutable financial ledger with row-level locking, and a real-time WebSocket game server supporting 1,024 concurrent connections. Expert in PHP (Laravel, OpenSwoole) and JavaScript/Node.js with deep fluency in concurrency control, database integrity, RESTful API design, and payment gateway integration.

## SKILLS

<b>Languages</b>	PHP 8.x, JavaScript (Node.js), Python, SQL
<b>Frameworks</b>	Laravel 10/12, Livewire, FastAPI, Express.js, OpenSwoole, Django
<b>Databases</b>	MySQL 8, PostgreSQL, SQLite · Eloquent, Sequelize, SQLModel
<b>Concurrency</b>	Pessimistic locking (SELECT FOR UPDATE), DB transactions, row-level locks
<b>Auth &amp; Security</b>	JWT, Sanctum, Spatie RBAC, HMAC-SHA256, OTP hardening, rate limiting
<b>Real-Time</b>	WebSocket, WebRTC, Socket.IO, OpenSwoole shared memory tables
<b>Payments</b>	Paystack, Flutterwave (REST + webhook verification)
<b>Infra &amp; DevOps</b>	Docker, Nginx, Systemd, PM2, Railway, Linux, CI/CD, SSH

## EXPERIENCE

### Software / Backend Engineer

2023 – Present | Hybrid / Contract

Bluespectra Limited & Zealarax Technologies

- Architected and delivered the FPI Clinic API — **371 action classes, 91 controllers, 62 models, 96 migrations** — covering the full hospital clinical lifecycle with pessimistic locking at **6 resource contention points** and dual-layer audit on **60+ models**.
- Built the OGSHC Housing Management System for Ogun State Housing Corporation with **4 payment entry points, 85+ RBAC permissions**, Paystack integration, and dual authentication guards (admin + OTP-based customer portal).
- Designed Telcom API (Veritob) — immutable double-entry financial ledger with **balance snapshots on every transaction**, HMAC-SHA256 webhook verification (raw payload capture), single-use PIN session tokens consumed atomically before purchase, and exponential backoff virtual account provisioning (**60s → 300s → 600s** retries).
- Delivered Zamfara Pharmacy Supply Chain API (Node.js) with multi-supplier PO workflow — atomic approval + rejection cascade + bulk audit logging in **1 Sequelize transaction** — plus transactional POS with VAT, discounts, and parallel inventory decrement.
- Shipped **3+ content-driven website backends** (NCECC, RTI, OAU) with 30+ entity CMS, paginated public APIs, and OTP authentication; diagnosed and corrected a cross-cutting **user\_id semantic bug across 21 controllers (89 occurrences)** in an inherited codebase.

### Software Developer

2022 – 2023

Programmers' Hub & NACOS, Federal Polytechnic Ilaro

- Developed campus-wide web applications; led software director role organizing coding workshops, hackathons, and mentoring student developers in NACOS.

## KEY PROJECTS

### Ludo WebSocket Server

OpenSwoole · PHP 8.1 · MySQL · Systemd · Nginx

- Stateful real-time server with **3 shared memory tables** — **1,024 connections / 256 game rooms**, O(1) state reads, no Redis dependency; 2-layer API auth with per-developer call analytics.

### Telcom API — Veritob

Laravel 12 · PHP 8.2 · MySQL

- Immutable ledger with balance snapshots; pessimistic row-locking; HMAC webhook verification; single-use PIN tokens; UUID v7 PKs; composite indexes on all hot paths.

### FPI Clinic API

Laravel 10 · PHP 8.1 · Spatie Permission

- **371 actions, 10 roles, 45+ permission gates**; 11-point leave engine with fiscal year carry-over; polymorphic clinical data across InPatient/OutPatient; bcrypt OTP with attempt-count lockout.

### OGSHC Housing System

Laravel · Livewire 3 · Paystack · DomPDF

- **85+ permissions, 4 roles, 4 payment channels**; configurable Paystack fee abstraction via PaymentGatewayInterface; audit trail with device/IP/request context.

### Zamfara Pharmacy API

Node.js · Express.js · Sequelize · MySQL

- Multi-supplier PO with atomic approval/rejection; transactional POS with VAT + discounts; dual observability (ActivityLog + AuditTrail JSON diffs); **56 migrations over 7 months**.

### EMS-IBR (Co-owned)

Django 5 · Celery · Redis · PostgreSQL · Docker

- Multi-pass seat allocation with 8-directional adjacency constraints; Celery async jobs with progress tracking; deployed at Federal Polytechnic Ilaro for institutional testing.

## EDUCATION

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**HND, Computer Science** — Federal Polytechnic Ilaro

2021–2024

**ND, Computer Science** — Federal Polytechnic Ilaro

2018–2020

## CERTIFICATIONS

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Tunga Data Structures & Algorithms (2022) · Introduction to Backend Engineering, META/Coursera (2024) · Software Engineering 9-in-1, META/Coursera (In Progress)