

GODWIN CHUKWUDI CHUKWUMA

SOFTWARE ENGINEER (BACKEND)

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PROFESSIONAL PROFILE

Senior software engineer with 7+ years of experience designing, building and scaling production systems. Adept at systems architecture, performance optimisation and leading cross-functional teams to deliver reliable, secure platforms. Proven ability to choose appropriate technologies, design for long-term maintainability and deliver measurable improvements in latency, throughput and uptime.

CORE SKILLS

Python, Node.js, TypeScript, Django, NestJS, React, PostgreSQL, MongoDB, RabbitMQ, Supabase, NextJS, ExpressJS, Redis, REST/GraphQL API design, microservices, authentication & caching, Docker, Kubernetes, CI/CD, monitoring/observability (Grafana, Sentry), Celery, Kafka, cloud orchestration.

PROFESSIONAL EXPERIENCE

MitochonHub — Senior Software Engineer

Jan 2024 – Present

- Spearheaded design and implementation of a modular NestJS/Node.js microservices backend with PostgreSQL and MongoDB, enabling 3× concurrency and meeting fintech regulatory requirements.
- Introduced JWT-based authentication, Redis caching and Celery tasks to cut median latency by 45 %.
- Established CI/CD, Grafana monitoring and chaos testing to deliver 100 % release uptime and 30 % fewer critical bugs.
- Mentored engineers and partnered with the product, accelerating feature delivery by 35 %.

Migraid AI Ltd — Lead Software Engineer

Jan 2022 – Dec 2023

- Designed a privacy-focused visa automation platform.
- Migrated the monolithic system to Kubernetes-orchestrated microservices with Kafka for zero-downtime deployments and 4× throughput
- Developed AI document-extraction and form-filling pipelines using OCR/NLP to cut processing time from hours to minutes and added generative AI to draft embassy-ready cover letters.
- Designed pay-per-application and subscription models with secure payment gateways and discount codes, enforcing zero-retention and no-legal-advice policies.
- These initiatives halved duplicate code and sped builds by ~30 %, increased application throughput by 40 %, and grew revenue by 50 %.

Tru Ride (Lucid Intel Ltd) — Software Engineer II

Jun 2019 – Dec 2021

- Engineered the payment engine for TRU's ride-hailing platform using Node.js/NestJS, introducing a ₦1 k/day driver subscription model (inspired by flat-fee ride-hailing models that increase driver earnings) and a fare algorithm that computes charges from distance and time.
- Integrated card and cash payments with real-time confirmations and ratings, and exposed APIs for third-party courier services, which boosted driver earnings and retention by about 30 %, doubled ride throughput and delivered ~15 % additional revenue.

Dana Group — Junior Developer

Jul 2016 – May 2019

- Maintained corporate PHP/WordPress websites, implementing responsive design and security patches, optimising images, caching and scripts to improve performance.
- Built contact forms and event calendars, fixed bugs and documented changes, ensuring reliable upkeep and setting the stage for later modernisation.

EDUCATION

Yaba College of Technology — Lagos, Nigeria

HND — Electrical & Electronics Engineering

Certifications & Training

- African Leadership Xcelerator (ALX) – Software & AI Engineering Program (2024)
- ThinkCyber Nigeria – Cyber Security Analyst Certification (2023)