EMMANUEL OGHENE

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Portfolio · GitHub · LinkedIn

FULL STACK ENGINEER - TYPESCRIPT, NODE.JS & REACT

Multi-Tenant SaaS, Real-Time Systems and Billing Infrastructure

Full stack engineer with three years of freelance experience building SaaS products end to end, from multi-tenant backends and billing to real-time features and polished React interfaces. Shipped client work across logistics, e-commerce, real estate and content sites, and built three backend-heavy products on my own. Strongest in TypeScript, Express.js, NestJs and PostgreSQL.

MULTI-TENANT SAAS · REAL-TIME WEBSOCKETS · RBAC & AUTH · REST API DESIGN · NESTJS & EXPRESS.JS · POSTGRESQL · REDIS & QUEUES · NEXT.JS & REACT · TYPESCRIPT

PROJECT HIGHLIGHTS

Billing & Feature Gating
Tenon (live) · source

- Built an API that lets SaaS teams change plan limits and feature access without redeploying: usage tracking, rate limiting, hashed API keys and a versioned public API.
- Stripe billing driven by webhooks and processed exactly once, so retries and duplicate events never double-apply.

Concurrency & Real-Time
Stratum (live) · source

- Multi-tenant workflow engine where tenants define workflows as JSON; optimistic concurrency control with zero row locks and rules validated in memory via Redis.
- WebSocket updates across server instances through Redis pub/sub, with a database-enforced audit trail and query-level tenant isolation.

Queues & Automation
Persent (built, unpublished)

- Chrome MV3 extension and backend for personalised bulk outreach, sent through a rate-limited Bull/Redis queue with idempotent send tracking and live progress over WebSockets.

PROFESSIONAL EXPERIENCE

Freelance Software Engineer, 2023 - Present

OtoNav
FULL STACK ENGINEER — 2026

> **CONTRIBUTIONS:** Built everything except the mobile app for a delivery visibility platform for Nigerian vendors, where customers watch a rider live and confirm delivery with a PIN instead of taking the rider's word for it. The mobile app, built by another developer, runs on my API. Working demo, not yet launched.

- Developed a multi-tenant logistics API with strict vendor data isolation and role-based access control.
- Implemented real-time order and rider tracking using WebSockets, broadcasting GPS updates to vendors, riders and customers.
- Built PIN-verified delivery confirmation to prevent false completion claims.
- Designed self-contained, time-limited invitation links for vendor team onboarding.
- Engineered subscription automation with immediate plan changes, seat enforcement, expiry handling and account deactivation.
- Built an incident management system for lost or damaged parcels, vehicle breakdowns and rider emergencies, with prioritised admin tickets.
- Implemented traceable parcel handovers, delivery reassignment records and audit logging to support dispute resolution.

Node.js/Express, PostgreSQL, Drizzle ORM, WebSockets, Firebase FCM, Next.js

CAC Grace & Truth
FRONTEND ENGINEER — 2026

- Replaced a difficult-to-maintain Wix template with a custom 7-page Next.js website (gtmbirmingham.com), giving the ministry greater control over its digital presence and future updates.
- Automated sermon synchronization with YouTube, eliminating the need for duplicate manual uploads and simplifying content management.
- Improved the site's search visibility and social sharing through structured SEO metadata and share previews.
- Delivered a maintainable website that supports the ministry's online presence and visitor engagement.

Next.js, React, Tailwind CSS, YouTube Data API, Cloudinary

RheelTech
FRONTEND ENGINEER — 2025

Rheel Estate

- Delivered the public marketing site and an internal administration dashboard, enabling the business to manage property listings independently.
- Centralized property listing management and presentation, providing a more organized experience for prospective buyers and renters.
- Built a dedicated application launch page to support product visibility and acquisition.

Fyndr

- Developed the first consumer-facing web version of the platform before the product moved to mobile.
- Implemented service discovery, provider profiles and search functionality across multiple service categories.
- Delivered the core browsing experience needed to validate the product's initial user-facing workflows.

Next.js, React, TypeScript, Tailwind CSS

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Burn & Co

FULL-STACK ENGINEER 2024

- Delivered a complete jewellery e-commerce platform from design through deployment, establishing an online sales channel for the business.
- Implemented catalogue management, cart and checkout workflows, enabling customers to browse and purchase products online.
- Integrated real-time customer support chat directly into the shopping experience, allowing customers to get assistance without leaving their purchase journey.
- Built the frontend and backend as a unified application.

Next.js, Node.js/Express, WebSockets

Migho-Invest Ltd

FRONTEND ENGINEER 2023

- Consolidated the company's agriculture, transportation and real estate business offerings into a single corporate website.
- Built an administrative interface and product catalogue, making it easier to organize and present business offerings.
- Integrated WhatsApp enquiry links to create a direct communication channel between prospective customers and the business.
- Established a centralized digital presence to support the company's visibility across its different business divisions.

React, Tailwind CSS

TECHNICAL SKILLS

Backend: Node.js, Express, TypeScript, PostgreSQL, Drizzle ORM, MongoDB, REST API design and versioning, WebSockets, Redis, BullMQ, caching

Frontend: React, Next.js, TypeScript, JavaScript, Tailwind CSS

Payments & Security: Stripe, Paystack, webhooks and idempotency, JWT auth, RBAC, multi-tenancy, rate limiting

Infra & Tooling: Vercel, Railway, Cloudinary, Firebase FCM, Sentry, Pino structured logging

EDUCATION

B.Eng. Computer Engineering, Ekiti State University, Ado-Ekiti, Nigeria Graduated February 2026