

OROWOLE TIMOTHY

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SKILLS/TECHNOLOGIES

- **Proficient:** React.js, Next.js, FastAPI, Node.js, Express.js, TypeScript, Git & GitHub, MongoDB, Postman, PostgreSQL, C# ASP .NET CORE, Docker, Supabase, React Native, Expo, Redux, Redis

WORK EXPERIENCE

Full Stack Engineer

TradePartna

[Jan - present] *Remote.*

- Architected TradePartna end-to-end — a production-grade MetaTrader 5 trading journal and analytics platform — building 10+ authenticated dashboard modules (trade history, equity reports, backtesting, strategies, copy trading, AI journal) across a Next.js 16 / React 19 frontend and a modular FastAPI backend.
- Engineered a data-intensive trading dashboard featuring Recharts-powered equity and daily P&L charts, a TanStack Table v8 trade-history grid with cursor-based pagination, and a Tiptap-backed rich-text trading journal — with TanStack Query v5 for server-state caching and nuqs persisting all filter state to the URL.
- Designed a domain-driven FastAPI backend across 9 independent feature modules, each enforcing a strict router → service → repository → models layering contract; orchestrated background jobs via Celery + Redis and zero-downtime schema migrations via Alembic.
- Built a headless MetaTrader 5 sync microservice (FastAPI + Celery) that receives on-demand sync triggers from the core API, fetches live trade deals from the MT5 terminal, and delivers enriched payloads via webhook callback — isolated as a separate service to contain MT5's Windows-native blocking dependency.
- Designed and implemented Partna AI — a LangGraph ReAct trading copilot embedded as a backend domain — with 13 domain-specific analytics tools covering performance analysis, behavioral pattern detection, and risk metrics; built an SSE streaming endpoint, per-user credit metering in Redis, and a direct-connection Postgres checkpointer to bypass PgBouncer's transaction-pooling constraint .
- **Technologies:** Next.js 16, React 19, TypeScript, FastAPI, Python, PostgreSQL, SQLAlchemy, Alembic, LangGraph, OpenAI, Redis, Celery, TanStack Query v5, TanStack Table, Recharts, Tiptap, Zod, Zustand, NextAuth v5, Tailwind CSS 4, Docker.

Backend Engineer

Total Energies Housing Corporation

[Jan - Feb 2026] *Remote.*

Engineered a standalone ASP.NET Core Web API microservice to manage membership financing and complex share loan calculations for asset purchasing.

Implemented the loan repayment schedule calculation end-to-end by also connecting the endpoints I created to the frontend UI.

Designed and implemented a dedicated service layer for amortization math, accurately enforcing core business rules.

Refactored the RBAC logic for the personal banking application, giving room for custom role creation, permission mapping and endpoints protection based on the role-permission matrix.

Implemented secure API key authentication to facilitate seamless third-party integrations, enabling external financial partners to safely access and consume internal APIs.

Architected a secure, Zero-Trust transaction flow by enforcing server-side recomputation of financial schedules via inter-service communication, entirely eliminating the risk of client-side payload tampering and guaranteeing data integrity prior to database persistence.

Implemented seamless KYC workflows using QoreID for robust BVN verification, ensuring secure, compliant, and frictionless user identity validation.

Technologies: C# ASP .NET, React, PostgreSQL, Ms SQL, TypeScript, Tailwind CSS, Zustand, Git.

FastAPI Backend Engineer

CLUSTA

[August - November 2025] *Remote.*

- Engineered the backend for a scalable multi-tenant cooperative management system using FastAPI, handling complex hierarchical entities (organizations, memberships, regional structures) from the ground up.
- Designed modular database schemas and relationships for complex entities such as **organizations**, **memberships**, and **regional structures**, optimizing for maintainability and performance.
- Developed secure RESTful APIs with comprehensive validation, authentication, and role-based authorization layers.
- Enhanced query efficiency and transaction safety through advanced SQLAlchemy techniques and asynchronous request handling.
- Collaborated on **Dockerized deployments** and **CI/CD automation**, ensuring reliable builds and rapid iteration cycles on a **VPS production environment**.
- Contributed to internal architecture decisions, schema migrations with **Alembic**, and detailed API documentation using **OpenAPI/Swagger**.
- Worked closely with a cross-functional team to align backend functionality with evolving frontend and business requirements.
- **Technologies:** FastAPI, Python, PostgreSQL, SQLAlchemy, Alembic, Docker, Nginx, Git, CI/CD, Pydantic, Poetry, OpenAPI/Swagger

Frontend Developer

Mutual Benefits Insurance

[September - December 2025] Remote.

- Architected and implemented a comprehensive insurance product and policy management platform, delivering 42+ insurance products with dynamic routing and complex multi-step user flows that streamlined customer acquisition and policy management.
- Engineered a production-grade multi-step onboarding system with BVN/NIN verification, OTP validation, and automatic user data population, reducing failed registrations and improving conversion rates through seamless API integration and error handling.
- Designed and implemented type-safe API integration using Yup schemas for runtime validation with inferred TypeScript types, ensuring zero contract mismatches and eliminating production bugs related to API response variations across different error formats.
- Built a responsive authenticated dashboard enabling customers to manage policies, file claims, track payments, and manage notifications with real-time updates, supporting 50+ concurrent users during testing phases with reliable performance and zero downtime.
- Implemented advanced form validation and state management using Formik and Zustand, handling complex cross-field validation, conditional field visibility, and read-only field detection based on API responses, resulting in a polished user experience across mobile and desktop.
- **Technologies:** Next.js 15, Tailwind CSS, Zustand, TanStack Query, Formik, Yup, Shadcn/UI, Radix UI, Axios, Framer Motion, Git.

Backend Engineer, Intern

Polaris Bank Ltd.

[March - July 2024] Lagos, Nigeria.

- Built an internal application monitoring system modelled on Sentry, enabling real-time issue tracking and cutting developer response time.
- Designed and implemented secure RESTful APIs in C# ASP.NET for project management and user authentication, supporting actions like create, update, and role assignment.
- Optimized backend performance, reducing API response times by over 30%, improving user experience and system reliability.
- Collaborated with cross-functional teams to deliver features that supported 50+ active users during internal testing phases.
- Identified and resolved critical bugs during pre-release, boosting system stability and reducing QA cycles.
- **Technologies:** ASP.NET Core, C#, REST APIs, SQL Server, Entity Framework, Git

EDUCATION

Covenant University

B.Sc. Computer Science

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Hardware, Artificial Intelligence, Software Engineering, Object-Oriented Programming, Internet Programming.

Ogun State, Nigeria

August 2025