

OMENE MUDIAGA

Software Engineer

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SUMMARY

Software Engineer with 3+ years of experience designing and building backend-first, full-stack systems across healthcare, energy, retail, and public infrastructure. Strong focus on API design, data modeling, and system architecture for real-world constraints such as data integrity, price volatility, and operational reliability. Experienced in shipping production-grade web systems using Next.js, Supabase, and modern tooling, with an emphasis on system design, maintainability, documentation, and long-term scalability.

SKILLS

Programming Languages: JavaScript (ES6+) | TypeScript | Python | SQL | HTML5 | CSS3 | C#

Frontend Development: React, Next.js, Tailwind CSS, Bootstrap, Responsive Design, Component-Based Architecture, UI State Management, API Integration

Backend and APIs: FastAPI, Node.js (Express), REST API Design, Authentication & Authorization, Data Validation, Error Handling, API Versioning

Databases & Storage: PostgreSQL, Supabase, SQLite, Database Schema Design, Indexing, CRUD Operations, File & Document Uploads

Cloud & Deployment: Vercel, Railway, Docker, Render, Supabase Hosting, Environment Configuration, CI/CD Basics

Tooling & DevOps: Git, GitHub, Postman, Figma (handoff & dev collaboration), OpenAI APIs, Stripe, Webpack, Vercel, and n8n

Product & Engineering Workflows: System Design (MVP → V1), Feature Scoping, Technical Documentation, Agile Iteration, API-First Development, Debugging & Refactoring

Game Development: Unity (C#) | Game UI Design | Mobile Optimization

PROFESSIONAL EXPERIENCE

OpenHealth, Software Engineer

10/2025 – Present

Designed and shipped backend-first public systems and APIs focused on healthcare access, emergency response, and civic infrastructure.

- Architected and implemented public REST APIs for discovering healthcare facilities, emergency contacts, and location-based services.
- Modeled real-world healthcare data (facilities, services, states/LGAs) with an emphasis on data consistency, query performance, and long-term extensibility.
- Designed systems intended for **unknown external consumers**, prioritizing stable contracts, clear versioning, and documentation.
- Built lightweight frontend interfaces to allow real-time API testing and data exploration without requiring authentication.
- Produced OpenAPI-style documentation and README guides to support developer adoption.

Industry & Operations Systems, Software Engineer

08/2025 – 11/2025

Worked on backend systems designed around operational accuracy and data integrity in production-focused environments.

- Designed backend schemas and APIs for logging daily oil, gas, and water production data aligned with real oilfield operations.
- Implemented validation logic to enforce data correctness and prevent invalid or inconsistent production records.
- Modeled time-series-like operational data with update tracking and audit-friendly structures.
- Focused on backend reliability over UI polish, prioritizing correctness, traceability, and maintainability.
- Built systems assuming long-term usage rather than demo-scale assumptions.

Cradaptive Studios, Game Developer

05/2024 – 05/2025

Designed and managed teams on various game projects from start to finish. Provided guides and handled the various teams involved on projects

- Developed mini-games and reusable game mechanics using Unity and C#, applying software engineering principles and object-oriented design.
- Enhanced UI/UX, game flow logic, and animation timing, demonstrating strong problem-solving skills and cross-team collaboration.
- Designed and implemented level systems with basic state management, integrating feedback to optimize performance.
- Participated in sprint cycles and collaborated with designers in cross-functional teams to contribute to rapid development and deployment processes.

Choplife IB, Software Engineer

Present

Built consumer-facing web applications and product platforms with modern frontend stacks and supporting backend services.

- Developed full-stack web applications using Next.js with a mobile-first, performance-conscious approach.
- Built discovery and content platforms for real users, combining frontend UX with backend data services.
- Designed APIs and data models to support content discovery, community features, and structured data retrieval.
- Collaborated with non-technical stakeholders to translate product ideas into scoped, buildable systems.
- Balanced product experience with technical feasibility and delivery speed.

PurpleRain TechSafe, Frontend Developer Intern

06/2025 – 08/2025

- Engineered responsive UI components using React.js, TypeScript, and TailwindCSS, aligning with modern software development practices.
- Integrated dynamic forms and dashboards for an HR CRM platform, ensuring seamless data flow between front-end applications and backend APIs.
- Collaborated with the backend team to connect REST APIs and enhance integration with databases, reinforcing solid SQL proficiency.
- Optimized UI accessibility and responsiveness across devices, supporting agile software delivery and rapid deployment cycles.

PROJECTS

Student Health Center Website

Built a production-ready health information platform to improve student access to medical services and emergency guidance. Developed responsive UI pages, department listings, doctor availability views, and an AI-powered chatbot for health-related inquiries. Planned extensible features including appointment booking, student login, and health records access.

OpSafe, Incident Reporting & Safety Management Platform

Designed and built a web-based incident reporting system to digitize safety workflows and improve incident tracking for organizations. Implemented authenticated reporting, structured data validation, and API-driven workflows using FastAPI and PostgreSQL. Delivered an end-to-end incident submission flow with scalable backend architecture and clear separation of concerns.

Telegram Wallet & Token Tracking Bot

Built a Telegram bot in Python to track blockchain wallet balances and recent transactions on Solana. Implemented real-time transaction monitoring, wallet nicknames, and extensible logic for SPL token and NFT tracking. Designed the bot to support group notifications and automated alerts.

EDUCATION

Bachelor of Tech, Petroleum Engineering,

04/2025

University of Ibadan, Nigeria