

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.

Choplif 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