

Perpetual Asogwa

Fullstack Engineer

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SUMMARY

Full-Stack Engineer with 3+ years of experience designing, building, and deploying scalable SaaS applications using React, Next.js, TypeScript, Python, FastAPI, and PostgreSQL. Experienced in building responsive frontend applications, developing secure REST APIs, designing relational databases, and delivering workflow automation that improves operational efficiency. Proven track record of owning features from architecture to deployment, integrating real-time services, implementing authentication and RBAC, and collaborating across Product and Engineering teams to ship reliable, production-ready software. Passionate about building AI-powered products, scalable systems, and intuitive user experiences that solve real business problems.

EDUCATION

BSc Computer Science (in view) 2022 – 09/2026
University of Nigeria, Nsukka Enugu, Nigeria
- Completed coursework in software engineering and algorithms.
- Currently on a GPA of 4.0.

PROFESSIONAL EXPERIENCE

Full Stack Engineer 07/2026
Areai
- Developed the frontend for Afara AI an AI-powered teacher support platform, enabling educators to streamline lesson preparation and access AI-assisted teaching resources.
- Built a multi-channel LLM chatbot (Telegram + WhatsApp/Twilio) with FastAPI, separating deterministic state from AI-generated content for reliable navigation
- Designed it for multi-step user flows with back/forward navigation and field-level editing
- Built a shared, platform-agnostic handler layer with thin adapters for Telegram and WhatsApp, cutting duplicate logic
- Developed the landing page for FoundaMENTA, a foundational-literacy program for underserved communities across Africa: foundamenta.areai4africa.org

Fullstack Engineer (Open Source Contributor)
Drips Network
- Delivered production-ready frontend and backend features using React, Next.js, TypeScript, and Python across an actively maintained open-source platform.
- Built reusable components, integrated APIs, and improved frontend architecture, increasing maintainability and development velocity.
- Diagnosed production issues, implemented enhancements, and refactored existing functionality to improve application stability.
- Collaborated with distributed engineers through GitHub pull requests, code reviews, CI workflows, and asynchronous development practices.
- Maintained clean, reusable, and well-documented code aligned with project architecture and engineering standards.

Fullstack Engineer 11/2025 – 02/2026
UniTrack
- Built an end-to-end academic management platform using Next.js, Django, and PostgreSQL, owning architecture, frontend, backend, and deployment.
- Developed secure REST APIs supporting role-based workflows, reducing administrative effort by over **50%**.
- Designed PostgreSQL schemas and optimized queries, improving database performance by approximately **40%**.
- Implemented JWT authentication, RBAC, server-side validation, and centralized error handling, improving platform security and reliability.
- Built responsive dashboards, workflow automation, and real-time project tracking that improved operational transparency for students and administrators.
- Delivered reusable frontend components and scalable backend services that simplified future feature development.

SKILLS

Languages
Python, JavaScript, TypeScript, SQL

Developer Tools
Git, GitHub, Docker, CI/CD

AI & Automation
AI-Assisted Development • LLM Integration (working knowledge) • Prompt Engineering • Workflow Automation
Developer Tool

Frontend Engineering
Responsive Web Design, Component-Based Architecture, API Integration, State Management, Performance Optimization, Accessibility, Cross-Browser Compatibility, Responsive UI

Backend Engineering
Python, FastAPI, Django, REST APIs, Data Transformation, System Design, Distributed Systems, Backend Architecture, Authentication, RBAC, API Security, Data Validation, Error Handling, Performance Optimization, Asynchronous Processing

LEADERSHIP POSITIONS HELD

Google Developer Group on Campus, UNN 11/2025 – 08/2026
Technical Lead Enugu, Nigeria
- Led engineering initiatives across multiple production web applications, improving delivery through reusable architecture and engineering standards.
- Guided frontend and backend technical decisions, helping teams build scalable, maintainable software.
- Mentored developers through code reviews, architecture discussions, pair programming, and technical workshops.
- Collaborated with cross-functional teams to deliver community products within sprint timelines.
- Facilitated practical workshops on React, Next.js, TypeScript, Python, AI-assisted development, and modern software engineering practices.

AWARDS

Wema Bank Hackaholics Startup Pitch Competition (Enugu Edition) 16/10/2026
Wema Bank
- Won the first place in the women-led category for the solution I built, OluOra.
  An application that helps creators convert their comments in to content strategy.

Build with Gemma, GDGoC UNN (3rd Place) 20/07/2026
Kaggle
- Using the Google's Gemma 4 model, I built NaijaLedger, an application that allows local shop owners to transform their handwritten credit books in to standard business ledgers