ISAIAH SAMUEL

Senior Fullstack Engineer

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PROFESSIONAL SUMMARY

Senior Fullstack Engineer with 6+ years of experience designing, building, and securing enterprise-grade web applications and APIs. Specializes in backend systems using Python (Django/DRF), .NET (C#), and TypeScript/Node.js, with strong frontend expertise in React.js, Next.js, and React Native. Has delivered scalable platforms across school management, fintech, fleet logistics, waste management, and e-commerce. Holds an ISC2 Certified in Cybersecurity (CC) credential, enabling proactive security practices, API vulnerability assessment, and secure SDLC throughout the stack.

PROFESSIONAL EXPERIENCE

Fullstack Engineer & Technical Lead, *WONDERFALL SYSTEMS*   2020 – Present

Project Venus - School Management Ecosystem   Lagos, Nigeria

- Architected and built a scalable Django REST Framework backend (ERP) supporting student records, scheduling, fee management, payroll, and role-based access for thousands of users. [Backend]
- Designed and developed the enterprise admin dashboard frontend with React.js and Next.js, handling complex academic and administrative data visualization. [Frontend]

Inventra Mobile App

- Developed a scalable Django microservice API with PostgreSQL data modeling and JWT authentication for a combined inventory management and debt/redemption tracking system. [Backend]
- Built the cross-platform React Native mobile frontend a unique '2-in-1' app for inventory and debt tracking with a smooth, intuitive UX. [Frontend]

Fintech & Payment Systems

- Built secure RESTful and GraphQL APIs for financial transactions, reconciliation, and admin workflows following OWASP secure coding standards. [Backend]
- Delivered high-quality, responsive frontend interfaces for financial dashboards and administrative panels using React.js and TypeScript. [Frontend]

Technical Leadership & Security

- Led backend architecture, defined API contracts and database schemas, and drove production validation across multiple engineering teams. [Backend]
- Audited backend systems for injection vulnerabilities, insecure endpoints, and broken access controls using cybersecurity skills from ISC2 CC certification. [Backend]
- Established frontend coding standards, conducted code reviews, and validated production readiness as the frontend technical authority. [Frontend]

Software Developer (Contract), *RECURSIVE TECHNOLOGIES*   2024 – 2025

          Remote

- Collaborated on a large-scale waste management platform using Django and DRF - built route optimization APIs and set up real-time data pipelines. [Backend]
- Designed scalable data models and configured background task processing (Celery + Redis) to manage high volumes of logistics data and fleet telemetry. [Backend]

- Optimized PostgreSQL queries, cutting API response times by over 60% in data-heavy reporting modules. [Backend]
- Built complex frontend components for large-scale data visualization and logistics tracking dashboards. [Frontend]

Software Developer & Instructor, *CODEANT TECHNOLOGY HUB* 2023 – 2024
(NYSC) Imo State
- Built and maintained production-ready server-side code including REST APIs, database migrations, and admin tooling using Python and Django. [Backend]
- Developed responsive frontend user interfaces and maintained production-ready React components. [Frontend]
- Served as technical instructor and code reviewer for the 3MTT (NITDA) government talent programme, teaching fullstack engineering - JavaScript/React (frontend) and Node.js/Django (backend) - with emphasis on RESTful API design and scalable architecture. [Fullstack]
- Facilitated hands-on coding workshops at secondary schools under CODEANT Technology Hub, helping students build foundational programming skills. [Fullstack]

Software Developer, *XIGMA RESEARCH* 2019 – 2020
Lagos, Nigeria
- Built and integrated backend services for AI-driven object detection applications, including model-serving APIs that interfaced with computer vision pipelines. [Backend]
- Developed an optimized backend for an AI-based attendance management system (schools and corporates) with efficient data ingestion and reporting endpoints. [Backend]
- Built user interface components for the object detection and attendance management software applications. [Frontend]

FREELANCE PROJECTS

Vehicle & Fleet Management, *GIGM & IYARE Bus Companies*
- Designed and built the backend using ASP.NET Core (C#) and MSSQL Server - managing vehicle registration, driver management, route scheduling, booking APIs, and real-time telemetry. Aimed at replacing their existing legacy platform. [Backend]
- Created secure .NET Web API endpoints with Entity Framework Core, optimized for high- concurrency booking and logistics tracking. [Backend]
- Developed the client-side fleet management dashboard focused on real-time tracking and logistics. [Frontend]

E-commerce Applications
- Built scalable Django-based e-commerce backends with integrated payment gateway APIs (Paystack/ Flutterwave), product catalogue management, order processing, and inventory control. [Backend]
- Built the full-scale e-commerce frontend with dynamic product catalogs and integrated payment processing flows. [Frontend]

FIWEI-NGO Software Platform
- Built a self-managed NGO website using Sanity CMS for flexible content management with optimized frontend performance and dynamic content rendering. [Fullstack]

EDUCATION

Certified In Cybersecurity (CC) - ISC2   09/2023 – Present
Focused on software security to strengthen backend security decisions, proactive
vulnerability assessment, and guiding engineering teams in building secure, reliable
systems.

B.Sc. Computer Science - University of Benin (UNIBEN)   2016 – 2023
                                                                    Benin City

KEY STRENGTHS

Secure Backend Architecture
Deep expertise in secure SDLC, backend hardening, API vulnerability remediation, and OWASP practices -
reinforced by ISC2 CC certification.

Fullstack Adaptability
Comfortable across Python/Django, .NET/C#, and React/Next.js ecosystems delivering quality on both sides of
the stack simultaneously.

ERP & Enterprise Design
Proven delivery of complex ERP backends and dashboards for school management, transport, fintech, and
waste management at enterprise scale.

TECHNICAL SKILLS

Backend Lang.
Python 3.x | C# (.NET 6/7/8) | TypeScript/Node.js |
SQL

Frontend Lang.
JavaScript (ES6+) | TypeScript | HTML5 | CSS3

Databases
PostgreSQL | MySQL/MSSQL | MongoDB | Redis
(caching)

State Management
Redux Context API | Zustand

DevOps & Tools
Docker | Git/GitHub | Celery + Redis | Nginx/Gunicorn
| Vite | Webpack

Design & UI Tools
Figma (design-to-code) | npm

Backend Frameworks
Django & DRF | Flask | ASP.NET Core | .NET Web API

Frontend Frameworks
React.js | Next.js | React Native | Tailwind CSS |
Framer Motion

API & Integration
RESTful APIs | GraphQL | WebSockets | gRPC (basics) |
TanStack Query

Auth & Security
JWT/OAuth2 | RBAC | OWASP practices | ISC2 CC
certified

ORM & Query
Django ORM | Entity Framework | SQLAlchemy | Raw
SQL tuning

Architecture
Microservices | REST API design | Event-driven
(basics) | MVC / MVT