

Osagie Iyayi

Senior Software & Platform Engineer

Remote (GMT+1) | Flexible for US (EST) and UK/EU Hours

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Accomplished Senior Software and Platform Engineer with over **5 years of experience** building scalable, high-impact software solutions for global markets. I specialize in architecting robust systems using **Python (Django, FastAPI)** and **TypeScript (Node.js, NestJS, React)** to solve complex business challenges.

Skills

Programming Languages: Python (Django, FastAPI), SQL, JavaScript (NodeJS, React), TypeScript (NestJS, NextJS), Golang.

Databases & Vector Stores: Vector Databases (Weaviate, Pinecone), Postgres, MySQL, NoSQL (MongoDB, FaunaDB), Redis.

Cloud & Infrastructure: AWS, Google Cloud Platform (GCP), Docker, Terraform (Infrastructure as Code), Linux.

Architecture & DevOps: Microservices (Backends For Frontends pattern), REST & GraphQL APIs, CI/CD (GitHub Actions, CircleCI), LLM Integration & RAG Systems, Pytest/Jest.

Education

University of Lagos, Nigeria

Bachelor of Science in Mathematics

2020 - 2025

Experience

Senior Software Engineer at Insight7

August 2022 - present

- **Revenue Growth:** Architected and scaled the **Call Analytics** platform serving 10k–50k API requests daily and processing 80k–100k audio/video calls monthly, directly supporting growth to **\$250,000 in Annual Recurring Revenue (ARR)**.
- **Performance Optimization:** Diagnosed and resolved production performance degradation by analyzing application and database logs, introducing targeted indexing across high-volume collections, and optimizing inefficient queries, reducing slow-query incidents and significantly lowering API response latency under peak load.
- **System Reliability:** Maintained 99.9%+ uptime by strengthening load balancer health checks, improving restart behavior, and enhancing production monitoring.
- **Compliance & Trust:** Led annual security audits for **SOC 2, HIPAA, and GDPR**, identifying risks and ensuring full compliance while receiving strong positive feedback from external auditors.
- **Technical Leadership:** Established security, scalability, and reliability standards by authoring internal **Requests for Comments (RFCs)** and technical documentation to streamline team decision-making.

Software Engineer at Tecmie

July 2022 - January 2023

- **Algorithmic Optimization:** Designed and implemented new algorithms for core software services, leading to a **30% increase in positive feedback** from clients and end-users.
- **Agile Delivery:** Successfully managed project milestones within an **Agile environment**, ensuring the efficient and on-time delivery of complex software solutions.

Software(Backend) Engineer at Excite Africa

March 2021 - March 2022

- **Cost Efficiency:** Led cloud infrastructure optimization efforts that resulted in a **40% reduction in total operating costs**.
- **Rapid Scaling:** Contributed to the core development of the Excite Enterprise mobile application, driving it to achieve **over 1,000 downloads within its first month**.
- **System Reliability:** Established and maintained a robust, scalable system architecture to support **high-availability internet sites** and third-party service integrations.

Software Engineer at Joovlin(Contract)

August -September 2021

- **Architecture Modernization:** Developed and implemented APIs using **Microservices Architecture**, resulting in improved performance and efficiency for web and mobile clients
- **Cross-Functional Collaboration:** Partnered with product, design, and QA teams to define requirements and ensure the successful, timely delivery of new features.

Key Projects

Bitfast: AI-Driven Bitcoin Intelligence API

- Engineered a Bitcoin exchange rate predictor using **FastAPI** and **FaunaDB**, powered by a time-series machine learning model.

Open Source Developer & Maintainer

- [ThePeer Python SDK](#): Developed the official Python SDK for payment processing infrastructure.
- [Fincra NodeJS SDK](#): Built the official SDK to enable seamless integration of fintech products.
- [Gocrypto](#): Created a high-performance crypto/fiat exchange CLI using **Golang**.

Fuse Wallets

- Designed a secure peer-to-peer wallet system using **NestJS** and **MySQL (TypeORM)**, supporting account funding and token transfers between registered peers.
- Implemented automated email confirmation workflows and a robust transaction logging system to ensure data integrity.

Speaking & Recognition

- **Speaker | Localhost 2023:** Delivered a workshop on "[Automating Open Source Package Publishing with CI/CD](#)".
- **Speaker | OSCAFEST 2022:** Presented a session on "[Modern Machine Learning](#)".
- **Participant | Google Get-Ahead Africa:** Selected for the 2021 batch focusing on fundamental engineering challenges.