Nsikak Imoh

Senior Backend, API and AI Engineer

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Senior backend, API and AI engineer with 10+ years of building distributed systems, cloud platforms and LLM-powered products for fintech, maritime, logistics and industry. As a subcontractor, I have built software for two national governments, for projects used by the UN and the WFP, and for a Paris 2024 Olympics project. I research agentic engineering and intelligent systems.

Highlights

- Scaled a platform to 3.7M concurrent users and bots, serving 43M to 80M requests a day.
- Made API responses 240x faster, from 6s down to 25ms.
- Cut a cloud bill by over 90%, from $10k to under $1k a month.

Experience

Senior Software Engineer

Kaiko Systems · Berlin, Germany · 2025 to 2026

- Led the move of a Django monolith to microservices on AWS EKS, taking average API response times from 3 seconds to 180ms.
- Built LLM features for crew insights and shore reports.
- Shaped features with product managers from first idea to release.

Stack: Python, Django, Celery, HTMX, PostgreSQL, Redis, Docker, AWS EKS

Senior Software Engineer

Mudupay · Maryland, United States · 2023 to 2025

- Delivered 15+ core ERP modules in six months.
- Integrated LLM features into the ERP.
- Refactored a payment system for maintainability, speed and security.
- Set up the CI/CD pipelines and the testing strategy.

Stack: Python, Django, GCP, PostgreSQL, Redis, Docker, Pytest

Senior Backend Engineer

Metals Hub · Düsseldorf, Germany · 2023

- Built backend components in Django REST Framework, from solution to release.
- Built AI models that predict costs from trends in the metal and gas markets.

Stack: Python, DRF, PostgreSQL, Celery, Redis, microservices

Senior Python Engineer

Valorisoft · Amiens, France · 2022 to 2023

- Set up the microservice architecture with the team.
- Built the REST endpoints behind React front ends and IoT devices.

Stack: Python, DRF, PostgreSQL, Celery, GCP

Senior ERP Developer

Chevron · Makati, Philippines (contract) · 2020 to 2022

- Built an ERP system with 12+ modules, including finance and asset tracking.
- Built a real-time workforce management system.
- Stood in as engineering lead: ran technical interviews and worked with stakeholders.

Stack: Python, DRF, GraphQL, PostgreSQL, Celery

Backend API Engineer

Sikademy · Tampere, Finland (part-time) · 2019 to 2021

- Led the backend: a Node.js and GraphQL app with many endpoints.
- Moved the team onto Docker, Kubernetes and Jenkins.

Stack: Node.js, TypeScript, GraphQL, MongoDB, Redis

Full-Stack Software Engineer

Truckers Bay · Nantes, France (part-time) · 2016 to 2018

- Wrote the route optimisation and schedule planning algorithms.

Stack: Python, Django, MongoDB, React

Software Engineer Intern

Smart Technologies · Vantaa, Finland (part-time) · 2015 to 2016

- Built REST APIs in Flask, with full test coverage.

Stack: Python, Flask, GitHub Actions

Education

B.Sc. Software Engineering

American University of Nigeria, 2015 to 2020. First Class, and Best Graduating Student in Software Engineering. Thesis: a distributed job scheduling system for university computing clusters.

M.Sc. Computer Science (Coming soon)

Where I'm headed next: eye tracking, advanced machine learning, artificial intelligence, robotics and learning analytics.

Research

Experimental Face Recognition System Using Deep Learning Approaches

With Narasimha Rao Vajjhala and Sandip Rakshit. Springer, 2022.

Read the paper

Skills

Languages: Python, Go, Java, Kotlin, TypeScript, JavaScript, C++

Backend: Django, Django REST Framework, FastAPI, Flask, Spring Boot, Node.js, Express.js, GraphQL, gRPC, Celery, Drools

Frontend: React

Data: PostgreSQL, PostGIS, MySQL, MongoDB, Redis, DynamoDB, ClickHouse, TimescaleDB

Streaming and pipelines: Kafka, Kinesis, RabbitMQ, SQS, EventBridge, Airflow, dbt

Cloud and DevOps: AWS, GCP, Azure, Docker, Kubernetes, Terraform, AWS CDK, Argo CD, Jenkins,

GitHub Actions, CI/CD

Security: HashiCorp Vault, Keycloak, OAuth 2.0 and OpenID Connect, mutual TLS, HSMs

AI: LLM integration, RAG, pgvector, LlamaIndex, machine learning, deep learning, TensorFlow, PyTorch, scikit-learn, Pandas, NumPy

Robotics: ROS 2, PX4 and MAVLink, Gazebo

Reliability: Prometheus, Grafana, Loki, ELK, CloudWatch, k6

Methods: microservices, event-driven architecture, TDD, Agile/Scrum