

EMMANUEL ARO

SOFTWARE ENGINEER · SYSTEMS · PLATFORMS · APPLIED AI

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LinkedIn • GitHub • Portfolio

PROFILE

Passionate Full Stack Software Engineer specializing in the end-to-end architecture of scalable, production-grade platforms at the intersection of web systems and applied machine learning. Driven by a deep love for the craft across the Python / Django Ninja and Next.js (App Router) / TypeScript ecosystems. Maintains a rigorous working discipline built around strict typing, containerized delivery, and measurable system outcomes. Proven record of shipping first-to-market products — from enterprise workflow platforms to predictive security models — with a strong bias for decoupled architecture, defensible API surfaces, and infrastructure that holds under production load.

TECHNICAL SKILLS

Languages	Python, TypeScript / JavaScript (ES6+), PHP, SQL
Backend & APIs	Django Ninja, Django, REST, JWT Auth, Laravel, Node.js
Frontend / UI	Next.js (App Router), React, Tailwind CSS, Shadcn/UI
Data Layer	PostgreSQL, MySQL, SQLite, Supabase
Infra & DevOps	Docker, AWS, CI/CD pipelines, Git / GitHub, Postman
AI / ML	Scikit-learn, TensorFlow, Pandas, NumPy, OpenCV, NLP, Malware Analysis
Engineering	Agile / Scrum, API contract design, endpoint hardening, schema modeling

PROFESSIONAL EXPERIENCE

Boxonia Blueprint

Oct 2024 – Present | Lagos, NG

Software Engineer

- Built a centralized digital ecosystem in Python that consolidates story-development and talent-management workflows for globally distributed film productions.
- Shipped a talent-booking platform that removed cross-border coordination bottlenecks for high-profile international clients, turning multi-day scheduling cycles into a single transactional flow.

Tech4mation (NativeTalk)

Feb 2026 – Jun 2026 | Lagos, NG

Software Developer, Platform Engineering

- Collaborated closely with Product Managers and Product Engineers to architect and ship new product features, achieving a record-breaking delivery velocity that surpassed all previous

engineering benchmarks within the company.

- Architected TaskForge Pro, a high-throughput team-management platform on Django Ninja + Next.js (App Router) + PostgreSQL, designed around a decoupled service boundary and strict typed API contracts.
- Hardened the platform's security posture by designing a JWT-based authentication layer and codifying an endpoint-coverage regime in Postman to catch regressions before promotion to staging.
- Shipped core contributions to the omnichannel-crm service, refactoring backend logic for horizontal scalability and reducing coupling between channel adapters and the core messaging pipeline.
- Standardized local and staging environments with Docker, eliminating environment drift and drastically reducing onboarding time for new contributors.

Bincom Dev Center

Sep 2025 – Jan 2026 | Lagos, NG

Full Stack Developer

- Architected Next.js UI layers for high-load web applications, measurably improving frontend performance budgets and SEO posture via App Router primitives and server-component data flow.
- Re-modeled relational schemas in MySQL and rewrote hot-path queries, accelerating data retrieval by 20% and stabilizing latency under peak load.

Cyberbuddies.com

Apr 2024 – Aug 2024 | Ibadan, NG

Full Stack Developer

- Shipped multiple full-stack applications end-to-end and introduced automated testing pipelines that raised team delivery velocity by 25%.
- Led a production workload migration to AWS, re-planning resource allocation to cut infrastructure overhead while preserving SLA targets.

SafeSpace.org Association

May 2023 – Feb 2024 | California, US (Remote)

Operations QA Engineer

- Designed and deployed Python / Django automation pipelines that lifted operational throughput by 30%, replacing manual review loops with deterministic, auditable workflows.
- Instituted a QA protocol that reduced data-entry error rates by 50%, establishing the organization's internal benchmark for data integrity in containerized environments.

Fiatci.io

Sep 2022 – Mar 2023 | Brussels, BE (Remote)

Lead Full Stack Engineer

- Led a 7-engineer team through the end-to-end architecture, build, and deployment of the company's flagship web platform — delivering the first successful product launch in company history.
- Set technical direction across frontend, backend, and release engineering; owned review standards, branching strategy, and the cutover plan into production.

APPLIED AI / ML PROJECTS

Malware Detection System

PYTHON · SCIKIT-LEARN · SECURITY ML

Designed a Python-based security platform that applies supervised machine learning to real-time malware identification and classification. Delivers predictive threat analysis suitable for enterprise endpoint monitoring, structured for retraining on evolving threat corpora.

Facial Recognition Attendance System

PHP · JAVASCRIPT · OPENCV

Engineered a webcam-driven attendance platform combining PHP / JavaScript with computer-vision pipelines. Captures, normalizes, and classifies facial images, persisting attendance events to a secured relational store.

Cancer Risk Prediction (Clinical ML)

SCIKIT-LEARN · PANDAS · CLINICAL DATA

Built a high-accuracy diagnostic model trained on clinical datasets for proactive risk assessment. Emphasizes reproducible feature engineering and explainable classification outputs for clinical review contexts.

Fake Tweet / Misinformation Detection

NLP · TEXT CLASSIFICATION

Developed an NLP classifier targeting misinformation on social platforms, integrating tokenization, embedding, and classification primitives to lift content-integrity signal on noisy input streams.

Named Entity Recognition (NER) Model

NLP · PYTHON · INFORMATION RETRIEVAL

Designed and shipped an NLP pipeline that extracts and categorizes entities (persons, locations, dates) from unstructured text, delivering precise structured output from free-form input.

EDUCATION & CERTIFICATIONS

B.Sc. Computer Science — Federal University Oye-Ekiti, Nigeria	2025
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Software Engineering Certification — GB-Tech Learning Centre, Ibadan, Nigeria	2023
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