ABDULMATEEN TAIRU

Senior Backend Engineer | TypeScript, Python, Distributed Systems, AI Infrastructure
Lagos, Nigeria (Remote) | abdulmateentairu@gmail.com | linkedin.com/in/abdulmateen-tairu | github.com/taycode | medium.com/@taycode

SUMMARY

Senior backend engineer with 7 years building messaging, payments and AI infrastructure for remote teams in Europe, the US and Africa. Most recently owned the multichannel messaging core at ChatArmin, handling millions of messages a day for 300+ e-commerce brands. Before that, built an LLM gateway and training-data pipelines at Invisible Technologies for clients including OpenAI, Cohere and Microsoft. Works mainly in TypeScript (Node.js, NestJS) and Python (FastAPI, Django) on Postgres, Redis, queues and Kubernetes. Speaker at PyCon Africa 2025 and PyCon Ghana 2026.

SKILLS

- **Languages:** TypeScript, Python, SQL
- **Backend:** Node.js, NestJS, Express, FastAPI, Django, Flask
- **Data and messaging:** PostgreSQL, Redis, BullMQ, Celery, Kafka, RabbitMQ, Airflow, Sequin CDC
- **AI:** OpenAI, Anthropic and Gemini APIs, LLM gateways, RAG with pgvector and Pinecone, Twilio and LiveKit voice agents
- **Infrastructure:** Docker, Kubernetes, AWS, GCP, GitHub Actions, Datadog, Grafana
- **Frontend:** React, Next.js

EXPERIENCE

ChatArmin | Senior Software Engineer | Remote (Vienna, Austria) | Jan 2026 - Dec 2026

- Owned the messaging core (WhatsApp, Instagram, Facebook, TikTok, email) behind a unified inbox used by 300+ e-commerce brands, handling millions of messages a day.
- Built phone calls into the product with Twilio and LiveKit, including an AI voice agent that answers inbound calls.
- Migrated email from one channel per address to shared connections across Gmail, Outlook, IMAP, Mailgun and SES, with zero downtime.
- Built trace-mail, a CLI and agent skill that the company's AI agent uses to debug email delivery issues.
- Made message ingestion 80% faster and cut database size by 30% through query and index work.
- Halved platform downtime with reliability work across ingestion, queuing and delivery, supporting growth to $5M ARR.
- Designed automatic failover between messaging providers, keeping delivery running with no message loss during peak traffic.
- Fixed UX bottlenecks with targeted frontend work, cutting support tickets by 80%.
- Tech: TypeScript, Node.js, PostgreSQL, Redis, BullMQ, Sequin CDC, Kubernetes, Twilio, LiveKit

Insomnia Labs | Senior Backend Engineer (Freelance, Part-time) | Remote (Texas, USA) | Mar 2025 - Nov 2025

- Built a real-time blockchain event indexer with Ethers.js, NestJS and BullMQ, persisting on-chain events to PostgreSQL.
- Architected a cross-border payments backend for on-ramp, off-ramp and fiat-to-fiat transfers across several payment providers, with retries and monitoring.
- Set up Grafana monitoring and resolved performance bottlenecks to keep the platform highly available.

Invisible Technologies | Software Engineer (Forward Deployed) | Remote (New York, USA) | Mar 2023 - Aug 2025

- Worked directly with client teams at OpenAI, Cohere and Microsoft to build the pipelines and tooling behind their AI training data.
- Designed and shipped an LLM gateway (FastAPI) over OpenAI, Anthropic and Gemini, making dataset generation 80% faster and cutting QA costs by 93% at 10K+ weekly requests.
- Built async services for Microsoft's RLHF pipelines (Django, Celery, Next.js) that orchestrated GPT and Gemini to generate 500K+ validated training records.
- Built a code validation service for Python, Java, C and C++ training data, automating syntax and correctness checks across thousands of examples.
- Owned Airflow ETL processing 5M+ records a day with zero data loss, exporting millions of training examples weekly.
- Built event-driven integrations with Google Docs, Slack and client systems for Expedia, Bolt and Wolt, processing 100K+ requests a day with retries and monitoring.
- Built semantic task assignment with Pinecone and LLMs to match internal experts to client work.
- Led incident response for company-wide outages: root-cause analysis, post-mortems and permanent fixes.
- Tech: Python, FastAPI, Django, Celery, Airflow, TypeScript, Node.js, Next.js, Redis, Kafka, RabbitMQ, Snowflake, Datadog, GCP

myStash | Founding Software Engineer | Lagos, Nigeria | Sep 2021 - Dec 2022

- Led SaveChecks, a B2B employee savings product that contributed to the company's $2M acquisition.
- Migrated a monolith to NestJS and Flask services, scaling to 30K+ users and NGN 1B+ in processed transactions.
- Rebuilt payment flows with optimistic locking, database transactions and idempotency keys, cutting failures by 30% and reaching 99.8% resolution across thousands of daily transactions.
- Built reconciliation pipelines processing 10K+ bank alerts a day with Redis and Bull workers.
- Set engineering standards for code review and API design, and turned business KPIs into engineering OKRs.

Ikonik | Backend Engineer | Lagos, Nigeria | Feb 2021 - Sep 2021

- Built Express and Flask services for an agency banking product processing NGN 500M+ a month, including real-time WebSocket notifications, payment reconciliation, POS receipts and SOAP/REST bill-payment clients.

Neohaul Technologies | Backend Engineer | Lagos, Nigeria | Feb 2020 - Oct 2020

- Built the backend for real-time logistics and cargo tracking, with Firebase Cloud Functions for background jobs.

Terragon Group | Data Engineer | Lagos, Nigeria | Sep 2019 - Mar 2020

- Built real-time pipelines tracking web activity for thousands of users with Node.js, Python, Kafka and RabbitMQ.

PROJECTS AND OPEN SOURCE

- **triaj.app:** Pulls Linear tickets, Slack threads and docs into one place and answers questions about a project. NestJS, PostgreSQL (pgvector), BullMQ.
- **UnbiasedNG:** Real-time ingestion that clusters Nigerian news across publishers, with a FastAPI sidecar for embeddings, classification and summarization.
- **Distributed Sockets App:** WebSocket scaling across servers with RabbitMQ, with a Medium write-up (github.com/Taycode/distributed-socket-app).
- **HAYA (haya.ng):** AI talent matching with resume parsing and semantic ranking (LangChain, OpenAI embeddings, Pinecone).
- **Bull-board:** Contributor to the open-source dashboard for Bull and BullMQ queues.

SPEAKING

- PyCon Ghana 2026: "Building Data-Intensive Systems"
- PyCon Africa 2025, Johannesburg: "Servers Get Stressed Too: Subtle Ways We Overload Our Systems Without Realizing It"

EDUCATION

B.Sc. Computer Science with Mathematics, Obafemi Awolowo University, Ile-Ife, Nigeria