Contact

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Lagos, Nigeria · remote
0xkhingx.vercel.app
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Skills

Languages
Python, TypeScript, JavaScript (ES6+), Rust

Backend & data
FastAPI, Flask, Node.js, PostgreSQL, SQLite, Supabase, REST API design, job queues, GitHub Apps & webhooks

Machine learning
XGBoost, RAG (LangChain, ChromaDB), model evaluation & benchmarking, NLP & computer vision integration

Frontend
React, Next.js, React Native, Astro, Tailwind CSS, HTML5 / CSS3, Figma to code

Tooling
pytest, Docker, Git & GitHub, code review, Agile workflows

Research
Bioinformatics, molecular docking (AutoDock Vina, PyMOL)

Education

B.Sc. Biochemistry & Molecular Biology
Obafemi Awolowo University
2021 – 2026

Certification

Electric Sheep Africa
Machine Learning Fellowship

Languages

English, fluent
French, basic

Oluwadamilare Ogundele

Dre · Software engineer for the web and machine learning

Summary

Software engineer who builds products end to end: machine learning models in Python, APIs in FastAPI, and interfaces in React and Next.js. 3+ years building Python and PostgreSQL systems, plus applied ML as a fellow and computational bioinformatics research, which shows in how I measure results: I ship tested, containerised services with real benchmarks and performance numbers.

Experience

Frontend Engineering Intern Oct 2026 – Present
Nannoy · Remote

- Building and shipping frontend features with the engineering team.

Freelance Python Engineer & Frontend Developer 2020 – Present
Self-employed · Remote

- Built and deployed **Matchday**, a football outcome predictor: XGBoost model, FastAPI backend, Next.js and TypeScript frontend, Docker and 51 pytest tests, live in production.
- Delivered **ArchitektureArt** end to end as sole developer, set up in 4 days; generated about 2,000 WebP/AVIF image variants and cut load time by 60%.
- Built the **Kynigma** studio website from the ground up and shipped client sites in React, Next.js and TypeScript, in Agile workflows with international clients, on time and within scope.
- Developed Python backend services and automation (Flask, FastAPI) and integrated ML models into production NLP and computer vision applications.

Bioinformatics & Machine Learning Researcher 2025 – Present
Obafemi Awolowo University

- Research the binding affinity of gentamicin through molecular docking (AutoDock Vina) of bioactive compounds from cornsilk, pineapple and curcumin, with structures from PubChem and the Protein Data Bank.
- Compare binding energies (kcal/mol) across candidates and inspect poses in PyMOL to rank which interact most strongly.

Machine Learning Fellow 2025 – 2026
Electric Sheep Africa

- Built and deployed retrieval-augmented generation (RAG) systems in Python with LangChain, sentence-transformer embeddings and a ChromaDB vector store behind a FastAPI service.
- Took my own projects from idea to deployment, shipping Matchday and MoodMix as end-to-end products; earned the fellowship certification.

More work

0xkhingx.vercel.app/work

Selected projects

Matchday · football outcome predictor matchdayfate.vercel.app

- XGBoost on 23 fair-play features predicting Home/Draw/Away across Europe's top five leagues, served by FastAPI to a Next.js and TypeScript frontend.
- Locked a 1,752-match test set before tuning: log-loss 0.985 against 1.077 for the naive baseline, close to the bookmakers' 0.965.
- Covered by 51 pytest tests and packaged with Docker for reproducible deployment.

ArchitektureArt · client website architektureart.xyz

- Built the entire gallery storefront alone and had the project set up in 4 days.
- Generated and optimised about 2,000 WebP and AVIF files across sizes and orientations, including 777 generated images, and cut page load time by 60%.

MoodMix · mood-to-playlist ML app github.com/0xkhingx/moodmix

- Designed, built and deployed a product-focused ML web app during the Electric Sheep Africa fellowship; source code is public.

Kynigma · studio website kynigma.vercel.app

- Built the complete studio site from the ground up, including the hero and project presentation.

Code-review-as-a-service platform In development

- GitHub App with signed pull-request webhooks, FastAPI, a PostgreSQL-backed job queue (no Redis) and workers posting automated review comments.
- Ruff, Bandit, ESLint and Semgrep run before an LLM behind a provider-agnostic interface, with a Next.js dashboard.

Earlier career

Secondary & Primary School Teacher 2018 – 2023

Wonderful Heights School, Abeokuta (2021 – 2023) · The Best Legacy Academy, Owode Yewa (2018 – 2020)

- Taught STEM, building the communication and mentoring skills I bring to engineering teams.