

Afeez Ayomide Olagunju

AI-Native Full-Stack Engineer | Next.js · TypeScript · Python · PostgreSQL | Computer Vision & LLM features | PhD Researcher

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Profile

Full-stack engineer who ships AI-powered products from idea to live pilot. Founder and technical lead of Cereus Technologies, with production apps in healthcare triage, agriculture, flood-risk decision support and education, and paid client delivery. PhD researcher in multimodal deepfake detection, with former academic leadership (Acting Head of Department, Computer Engineering) and years of teaching and mentoring.

Core skills

Area	Skills
Frontend	React, Next.js (App Router), TypeScript, Tailwind CSS, Framer Motion, MapLibre GL JS
Backend and data	Node.js/Express, Python, FastAPI, Flask, PostgreSQL (Neon, Supabase, PostGIS), Prisma, Drizzle ORM, REST APIs
Auth and deployment	Clerk, NextAuth, Vercel, Railway, Git/GitHub, VS Code, GitHub Copilot
AI and ML	LLM integration (Anthropic Claude vision, Groq), PyTorch, scikit-learn, XGBoost, computer vision, multimodal deep learning, model evaluation
Security	Secure authentication, data-protection compliance (NDPR), deepfake and synthetic-media detection
Delivery	MVP scoping, client work, technical training, supervising and mentoring student engineers

Selected projects

RadioAct: patient-first radiology triage (Cereus Technologies) | radioact.app

- Built on the Ontomorph digital-twin platform; won its challenge at the Ontomorph hackathon.

- Live in pilot with real clinicians and patients, with close to 100 registered users; NDPR-compliant. Stack: Next.js, three.js (3D patient twin), Neon Postgres, Clerk, Claude vision models.

PlantID: AI plant identification and disease detection

- Migrated from Base44 to a self-owned stack: Next.js, Neon Postgres, Clerk authentication and Anthropic vision API, with an admin dashboard.
- Presented as a paper at FUNNAB CEIC 2026.

FloodWarn: flood-risk decision support for Ibadan | floodwarn.vercel.app

- Live app on a geospatial dataset of 144,401 records across 5 LGAs; Next.js, Tailwind CSS, Framer Motion, MapLibre GL JS, Neon Postgres with PostGIS, deployed on Vercel.
- Found that the dataset's susceptibility label was a single-column threshold rule, and rebuilt the target as a literature-grounded multi-factor index (AHP/Frequency Ratio).

Cereus Lens: AI digital gallery app | lens.cereustechnologies.com

- Live v1: scan an artwork, then generate an AI interpretation and an "Explore the Math" reading; upvotes feed a research study.

More live products (dev.afeezee.com)

- [Quantnance](#): natural-language investment intelligence (React 19, FastAPI, Groq Llama 3.3 70B, Clerk, Cloud Run); built and pitched with a team at the GDG OAU Hackathon.
- [Sculptform](#): AI-native form and survey builder that reconciles multiple source documents into one coherent form (Next.js, TypeScript, Vercel).
- [EASIL](#): Essay Assessment Integrating LLMs; instructors upload course material and assessments are generated automatically (React/Vite, Node/Express, Postgres, Groq).
- [Anaxim](#): adaptive learning guide, upload files and ask questions in any language (Next.js, Supabase, Groq).
- [Okawe](#): AI academic e-library with Q&A and quizzes (Next.js, Supabase, Groq).
- [Rezultal](#): university results portal with GPA engine and role-based dashboards (Next.js, Drizzle ORM, Neon, Clerk, Groq).
- [D'Icon School of Performing Arts](#): school website with admissions and admin dashboard (Next.js 14, Supabase, Framer Motion, Radix UI).
- [Odu](#): OUI chatbot on Llama 3.3 70B with retrieval grounding (pgvector, RAG).

Client and production builds

- [Risewithpledge.org](https://risewithpledge.org): full nonprofit website (Next.js, Neon Postgres) with automated signup replies and donor/volunteer email campaigns via Brevo.
- UNIOSUN Postgraduate Course Registration System: role-based production build with AI assist (Next.js, Neon, Clerk, Groq), live at uniosun-pg-portal.vercel.app.
- Offers migration of Base44 apps to self-owned Next.js stacks; migrated Anaxim, SkinAid and MindBloom.

Experience

Founder and Technical Lead, Cereus Technologies | [start year] to present

- Design, build and ship a portfolio of AI-enabled web products end to end (RadioAct, PlantID, FloodWarn, Cereus Lens, Sculptform, Okawe and others) on Next.js, TypeScript, Postgres and Clerk, deployed on Vercel and Railway.
- Took RadioAct from hackathon win to live clinical pilot with close to 100 registered users [add active users or scans processed if known].
- Co-founded with Abe Enoch; offer Base44-to-self-owned-stack migrations as a paid service [add number of clients if known].

Acting Head of Department, Computer Engineering, Oduduwa University, Ipetumodu | March 2025 to September 2026

- Led the department [add number of staff and students], covering academic planning, examinations and final-year project supervision.
- Chaired the Induction Planning Committee for the Faculty of Engineering and Technology.
- Taught and supervised across software, AI and systems courses (over 20 courses across both institutions).

Lecturer, The Polytechnic, Ile-Ife | March 2025 to September 2026

- Taught Intelligent Systems Design, Computer Security, Robotics and Automation, Operating Systems and C Programming.
- Supervised over 30 students on final-year projects, most of them deployed web or ML applications (see Supervision below).

Education and research

- **PhD, Computer Science**, Osun State University (in progress): "A Multimodal Deep Learning Framework for Real-Time Detection of Video, Audio, and Image-Based Deepfakes in Social Media Applications". Focus on phase-spectrum detection that stays robust under cascading social-media compression, built on DeepfakeBench in PyTorch.
- **PhD, Software Engineering**, Obafemi Awolowo University (in progress): writing-process provenance for academic integrity.
- **MSc** [degree title], [institution], [year]. **BSc** [degree title], [institution], [year].

Publications and papers

- FakeSmash: human deepfake-detection study, seven co-authors, formatted for Human Behavior and Emerging Technologies (Wiley) [update status: submitted or published].
- PlantID: presented at FUNNAB CEIC 2026.
- Co-author: speech emotion recognition fairness (SpeechFair); cybercrime impacts on Nigerian SMEs; systematic review of digital transformation in agriculture [add status for each].

Supervision and additional

Student projects supervised or co-supervised (deployed web and ML systems)

- SkinAid: AI skin-disease triage with Claude vision (React, Vercel serverless, Neon, Clerk).
- Glotta: multilingual text and voice retail translation (Next.js 15, Prisma, Neon, AssemblyAI, ElevenLabs).
- RegPortal and Hostel Allocation System: Oduduwa University systems (Next.js, Neon Postgres, Groq-grounded AI layer).
- Tuberculosis X-ray detection: DenseNet121 and CNN+ViT hybrid, with Grad-CAM used to catch shortcut learning (FastAPI, Next.js, Railway).
- Also: Odu (OUI chatbot, pgvector), Rezultal (results analytics), LinguaDepth, GhostWatch, Okawe, SIPsage, house price prediction with model monitoring.

Additional

- Recording artiste and songwriter (Afeeze); poet and writer, author of the Nuggets and Notes newsletter on Substack.
- Founder, Jude Mental Health Society (JMHS).
- Languages: English; Yoruba (fluent).