

# Ayyub Raji

**Frontend Engineer | Backend Developer | AI Engineering Trainee**

**Lagos, Nigeria • ayyubraji87@gmail.com • GitHub:**  
**github.com/raji-ayyub • LinkedIn: linkedin.com/in/ayyub-raji**

## PROFESSIONAL SUMMARY

Full-stack engineer with strong experience in **Next.js**, **TypeScript**, **TailwindCSS**, and **FastAPI**. Builds clean, scalable interfaces and solid backend architectures. Currently expanding into **AI engineering**, focusing on LLM integration, vector search, prompt engineering, and custom AI system development. Known for fast learning, ownership, and delivering solutions end-to-end.

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## CORE SKILLS

### Frontend Engineering

- Next.js (App Router), React, TypeScript, TailwindCSS, ShadCN/UI, Axios

### Backend Engineering

- FastAPI, Python, MongoDB, Pydantic models, CMS-style backend design, Authentication, REST API design.

### AI Engineering and ML

- LLM integrations (OpenAI, LiteLLM, LangChain)
- Vector search, embeddings, RAG pipelines
- Prompt templates, structured output, metadata extraction
- Building custom AI chatbot systems (pure Python, memory, synonym/antonym logic)
- Model loading, inference modules, N-Atlas experimentation

# RECENT AI ENGINEERING TRAINING

## Generative AI Engineering Track (2025)

- Model pipelines (OpenAI API, N-Atlas), embeddings, retrieval
  - LLM reasoning breakdown, context structuring, prompt frameworks
  - Built a pure-Python AI system: memory engine, synonym engine, sentence-mood detection, contextual learning
  - Deepened understanding of model tokens, parameters, scaling limits, quantization, and inference optimization
  - Working on safe, structured medical prompt systems (Nigerian languages + symptom extraction)
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## PROJECT EXPERIENCE

### Rajtronix CMS – Full Backend Overhaul (FastAPI + MongoDB)

*Backend Engineer | 2024–2025*

- Implemented complete CMS backend for projects, products, blogs, and trainees

### FinTrack-Style Dashboard (Next.js + TailwindCSS + TypeScript)

*Frontend Engineer | 2025*

- Built a polished, responsive financial dashboard UI following a strict design

### CulturaMed Intelligent Health Interface (AI-Powered Project)

*AI & Backend Contributor | 2025*

- Designed medical prompting logic for symptom interpretation
- Built formatted structured output (conditions, risks, recommended tests)

- Helped with multi-language auto-detection design
  - Integrated N-Atlas for clinical reasoning experimentation
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## WORK EXPERIENCE

### Software Engineer (Full-Stack) — Freelance

*2022–Present*

- Delivered full-stack solutions for dashboards, CMS systems, AI-assisted applications
  - Optimized web apps for performance, UX clarity, and scalable architecture
  - Integrated AI pipelines and vector search into production-ready APIs
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## EDUCATION

### NCE (completed)

Osun State college of Education, Ila Orangun, Osun State, Nigeria.

### B.Sc (processing)

Self-directed studies in Computer Science, Software Engineering, and Artificial Intelligence.

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## TECH STACK

**Frontend:** Next.js, React, TypeScript, Tailwind, ShadCN

**Backend:** FastAPI, Python, MongoDB, Pydantic

**AI:** OpenAI API, N-Atlas, embeddings, prompt engineering, vector DB concepts

**Tools:** Git, VSCode, Postman, Thunder Client, Figma

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## ACHIEVEMENTS

- Built a working linear regression algorithm from scratch using raw math formulas
  - Approved for an AI competition submission (Awarri Developer Challenge)
  - Designed multi-file AI memory architecture from scratch
  - Regularly trains others (Zara – coding program)
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## **AVAILABILITY**

Open to **full-time, contract, or remote** roles in Frontend, Backend, or AI Engineering.