

PC

PRINCE
CHUKWUEMEKA

AI ENGINEER · FULL-STACK DEV

CONTACT

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EDUCATION

B.Tech Information Technology

Federal University of Technology Owerri
(FUTO) · 2025

Algorithms & DS · ML · Computer Vision Neural
Networks · NLP · Software Eng.

AWARD

■ 2nd Place — HackTuto 2024

National Competitive Technical Hackathon

CORE SKILLS

AI / ML

- LLM Pipelines
- Agentic Design
- Structured Outputs
- Multimodal Eval
- Vision / NLP

LANGUAGES

- Python (Adv.)
- TypeScript
- JavaScript
- MQL5

FRAMEWORKS

- React
- Next.js
- FastAPI
- Node.js
- Pydantic/Zod

DATA & DB

- PostgreSQL
- Supabase
- Firebase
- Vector DBs

TOOLING

- Git / GitHub
- Bash/Shell
- REST APIs
- Async Processing

Prince Chukwuemeka

AI Software Engineer / Full-Stack Developer

5+ years · Python · React/Next.js · LLM Pipelines · Agentic Systems

PROFESSIONAL SUMMARY

High-velocity AI Software Engineer and Full-Stack Developer with **5+ years** of experience building data pipelines, agentic workflows, and production-grade applications. Deep technical expertise in **Python, React/Next.js, TypeScript**, and structured data serialisation (Pydantic/Zod). Proven track record designing resilient systems that transform chaotic multimodal data (text, images, video) into validated, deterministic code and schemas. Combines rigorous algorithmic engineering with a **founding-engineer mindset** focused on complex business logic, system edge cases, and high-throughput pipelines.

FEATURED AI PROJECTS

◆ LLM-Powered Agentic Financial System (Python)

- Engineered an autonomous, multi-step AI agentic framework that parses unstructured natural language inputs to execute multi-layered, state-dependent operational tasks.
- Developed deterministic validation layers to catch, score, and handle ambiguous LLM outputs, translating uncertain text into reliable, validated database executions.

◆ Multimodal Vision LLM Authenticator & Parser

- Built an end-to-end multimodal pipeline capable of parsing complex visual data structures and extracting semantic attributes under high ambiguity.
- Designed and executed a programmatic edge-case test suite across 100+ multi-step scenario variations to validate system accuracy and fault tolerance.

WORK EXPERIENCE

AI Engineering & Vision QA Specialist

Jan 2026 – Present

■ micro1 · Remote

- Engineered validation pipelines for advanced AI training models, evaluating code generation, logical reasoning sequences, and structural data adherence.
- Built reproducible decision trees and programmatic validation logic to process ambiguous, multi-format datasets — maximising output accuracy and data cleanliness.
- Processed and structured frame-by-frame video inputs, extracting hidden spatial and temporal relationships into reliable downstream data layers.

Full-Stack Developer & UI Engineer

2024 – 2025

■ Hyberbird IT · Remote

- Developed production-grade web applications using React, Next.js, Node.js, and PostgreSQL with fast streaming rendering and type-safe backend schemas.
- Led codebase reviews and architectural debugging, identifying performance bottlenecks and logic flaws within complex engineering pipelines.
- Documented strict API schemas, lifecycle states, and internal communication rules to ensure high-fidelity data transformations across the stack.

Python Trainer & Senior Developer

2023 – 2024

■ Prevailing Computers Limited

- Designed and instructed advanced backend programming curricula focusing on Data Structures, OOP, and production-level design patterns.
- Mentored engineering cohorts on testing methodologies, debugging workflows, and code optimisation, instilling strict standards for clean, maintainable codebases.

Software Developer

2022 – 2023

■ CETF Trust

- Built robust full-stack applications across financial, educational, and healthcare domains, writing highly adaptable code to handle diverse third-party integrations.

ADDITIONAL PROJECTS

MT5 Algorithmic Trading EA [Python + MQL5]