

# Chimaobi David Ibe

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## Professional Summary

**AI Integration Developer specializing in LLM-powered applications, chatbots, document processing pipelines, and workflow automation. I build AI systems that work in the real world — production-ready, verified, and reliable. Background in Industrial Chemistry means every output is tested, every result is traceable, and every system is built with quality control at its core.**

## Technical Skills

### AI & LLM Integration

- OpenAI API, Claude (Anthropic), Gemini integration
- LangChain: chains, agents, memory, RAG pipelines
- Hugging Face Transformers: NLP, emotion classification, inference
- AI agent development: sequential and multi-step workflows
- Prompt engineering and structured output design
- Vector databases and retrieval-augmented generation (RAG)

### Backend Development

- Python: FastAPI, Flask, Pydantic, RESTful API design
- Node.js: Express.js, NestJS, JWT authentication
- API Architecture: REST APIs, microservices, async/await patterns
- Webhook integration, billing systems (Paystack)

### Frontend Development

- React, Next.js, Vite
- TypeScript, JavaScript (ES6+)
- Tailwind CSS, responsive design
- State management, React Query, Axios

### Databases & Auth

- PostgreSQL (Supabase)
- SQLite
- Supabase Auth: multi-user, role-based access
- Database design and optimization

### DevOps & Cloud

- Containerization: Docker, Docker Compose
- Orchestration: Kubernetes
- Cloud Platforms: Vercel, Railway, Render, Fly.io
- CI/CD pipelines, deployment automation

### Tools & Practices

- Version Control: Git, GitHub
- Payment Integration: Paystack
- Email Services: Resend
- Data Visualization: Recharts, Chart.js
- Testing, debugging, observability

## Professional Experience

## **AI Agent Development | Ideora Research & Content Platform**

- Built a multi-step AI agent using Claude (Anthropic API) that transforms any topic into a publication-ready article through a sequential Plan ! Draft ! Polish workflow
- Integrated optional web search via Serper API to ground AI outputs in real, verifiable sources
- Architected full production stack: FastAPI backend, React/Vite frontend, Supabase multi-user auth, Paystack billing
- Supports 9 content formats including newsletters, research reports, whitepapers, X threads, and LinkedIn carousels
- Deployed on Render (backend) and Vercel (frontend) with full CI/CD pipeline

## **AI-Powered Discovery Engine | ask-obi Content Platform**

- Built a conversational AI discovery engine solving choice paralysis for streaming users across the African market
- Integrated natural language AI assistant that understands queries and returns personalized recommendations in real time
- Architected two-tier system: React/Vite SPA frontend + FastAPI backend with SQLite persistence
- Integrated third-party content metadata APIs with robust error handling and rate limiting
- Authored containerized deployment documentation for Railway/Render and Vercel

## **ML Inference & Sentiment Analytics | Emotion Analyzer**

- Built an AI-powered system detecting emotions and sentiment in customer reviews using Hugging Face transformer models
- Goes beyond simple positive/negative classification — identifies granular emotional states to help businesses improve retention
- Integrated multi-label emotion classification models into production backend services with model caching
- Developed real-time React analytics dashboard with interactive data visualizations using Recharts
- Built preprocessing pipeline: emoji handling, spell correction, and data aggregation

## **AI Research Operations Platform | Require Technologies**

- Co-founded and built an AI-powered research platform delivering audit-ready reports for law firms, investment teams, and consultancies
- Designed AI verification workflows combining automation with human oversight to achieve 95%+ accuracy on research outputs
- Built full platform: Next.js marketing site, Paystack payment integration, Resend email automation
- Architected multi-user infrastructure with Supabase auth, full citation trails, and enterprise-grade security

## **Fintech Platform | Requirements MVP**

- Built Nigerian fintech platform for global money transfers, crypto peer-to-peer trading, and financial management
- Implemented bank-level security with Supabase auth and PostgreSQL storage
- Deployed with Docker and Kubernetes manifests for scalable infrastructure

## **Education & Certifications**

### **Education**

BSc Industrial Chemistry — Enugu State University of Science and Technology

### **Certifications**

- Building Generative AI Powered Applications with Python — Coursera
- Developing AI Applications with Python and Flask — IBM
- Generative AI & LLMs: Architecture & Data Preparation — IBM
- Machine Learning with Python — IBM

## **Availability**

AI integration, LLM-powered applications, chatbot development, workflow automation, full-stack development.

## **Additional Information**

- Industrial Chemistry background brings rigorous verification mindset to AI engineering — every output is tested, every result is traceable
- Specialized in building AI systems that are production-ready, not just functional prototypes
- Experience building full AI products from idea to deployed, billing-enabled SaaS
- Remote-friendly with experience in async, cross-timezone collaboration