Chimaobi David Ibe

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Professional Summary

Software Engineer • Full stack Developer with extensive experience architecting and delivering scalable, production-ready APIs and web applications. Proven expertise in Python (FastAPI/Flask) and Node.js ecosystems, with a strong focus on system design, cloud infrastructure, and ML model integration. Specialized in building robust backend services, seamless frontend experiences, and deploying containerized applications across modern cloud platforms.

Technical Skills

Backend Development

- Python: FastAPI, Flask, Pydantic, RESTful API design
- Node.js: Express.js, JWT authentication, middleware development
- API Architecture: REST APIs, microservices, async/await patterns

Frontend Development

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

Machine Learning & Data

- Hugging Face Transformers
- PyTorch
- Model inference integration
- Emotion classification, NLP

Databases

- PostgreSQL (Supabase)
- SQLite
- 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 & Technologies

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

Professional Experience

Backend & Full-Stack API Development | Content Discovery Platform

- Architected and implemented high-performance FastAPI REST APIs with comprehensive Pydantic models for data validation and serialization

- Designed and developed advanced search endpoints with optimized query performance and filtering capabilities
- Integrated multiple external content APIs with robust error handling and rate limiting
- Built AI-powered chat endpoint with streaming capabilities for real-time user interactions
- Created comprehensive containerization strategies and deployment documentation for PaaS and container hosting platforms
- Ensured API scalability and reliability through proper async/await patterns and database optimization

Real-Time Media & Audio Workflows | Voice/Social Platform

- Engineered backend endpoints for media upload, processing, and streaming with support for multiple file formats
- Implemented client-side audio handling with Web Audio API integration for real-time processing
- Developed secure authentication flows using JWT tokens and role-based access control (RBAC)
- Built secure file storage system with cloud integration and CDN optimization
- Designed and implemented real-time features using WebSockets for live audio interactions
- Ensured data security and compliance with best practices for handling user-generated content

Corporate Website & Payments Integration | E-Commerce Platform

- Developed modern, responsive Next.js marketing website with server-side rendering (SSR) and static site generation (SSG)
- Integrated Paystack payment gateway with webhook handling for secure transaction processing
- Implemented email automation workflows using Resend for transactional and marketing emails
- Built reusable component library with TypeScript for consistent UI/UX across the platform
- Optimized performance with code splitting, lazy loading, and image optimization
- Deployed and maintained production infrastructure on Vercel with CI/CD integration

ML Inference & Analytics | AI-Powered Analytics Platform

- Integrated Hugging Face emotion classification models into production backend services
- Built scalable inference endpoints with model caching and batch processing capabilities
- Developed real-time React analytics dashboard with interactive data visualizations using Recharts
- Implemented data pipeline for processing and aggregating emotion classification results
- Created API endpoints for historical data retrieval and trend analysis
- Optimized model inference performance to handle high-volume requests efficiently

Enterprise Admin Dashboard & Backend | Enterprise SaaS Platform

- Built comprehensive frontend visualizations for complex rule management systems
- Developed backend telemetry APIs for real-time monitoring and alerting
- Implemented rule engine with configurable business logic and validation
- Created real-time monitoring dashboards with live data updates
- Designed and implemented API endpoints for rule CRUD operations with audit logging
- Ensured system reliability through comprehensive error handling and monitoring

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

Software development, frontend, backend, fullstack, etc.

Additional Information

- Strong problem-solving skills with a focus on clean, maintainable code
- Experience working in agile development environments
- Passionate about building scalable systems and optimizing performance
- Active contributor to open-source projects and technical communities