JOHNPAUL OKOYE

AI Engineer | Agentic Systems and Applied AI

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PROFILE

AI Engineer with hands-on experience in LLM integration, agentic workflows, and applied AI systems. Skilled in Python, LangChain, PydanticAI (other Orchestration frameworks), and vector databases, building real-world solutions powered by retrieval-augmented generation (RAG), autonomous agents, and AI-driven automation. Strong foundation in backend systems, cloud infrastructure, and data pipelines, delivering production-grade AI that scales efficiently. Passionate about bridging reasoning models and distributed systems to drive intelligent decision-making and workflow automation.

WORK EXPERIENCE

AI Engineer | Agentic Systems & Autonomous Workflow Design at Thinknodes

June 2025 – Present

- Designed and implemented agentic architectures and AI-driven workflows leveraging LLMs, retrieval systems, and orchestration frameworks to augment business operations.
- Built a lead-generation & sales agent using multi-agent coordination and RAG (Retrieval-Augmented Generation)—automating sourcing, qualification, and CRM integration across email and LinkedIn channels.
- Developed a personal AI assistant for email and task management featuring semantic classification, automated drafting, meeting summarization, and memory-based follow-ups.
- Designed modular agent pipelines with event-driven orchestration, tool use, and persistent memory for adaptive, multi-domain task execution.
- Collaborated with infrastructure teams to optimize LLM latency, scalability, and model performance for production environments.

Full-Stack Engineer at Darey.io

September 2024 – September 2025

- Engineered scalable APIs and applications with JavaScript & Python across frontend and backend systems, boosting overall system performance by 30%.
- Optimized microservices with Kafka and Redis, supporting over 3 million transactions daily.
- Integrated AI models and personalization engines, driving a 40% improvement in user engagement.
- Conducted code reviews and implemented high-performance queries, reducing latency by 25%.
- Delivered technical solutions in a dynamic, microservices-oriented environment, contributing to business growth.

Software Engineer at GRRN

May 2024 – October 2024

- Developed high-performance desktop applications in JavaScript (Electron) & Python(PyQT), improving application speed by 25% for 500+ users.
- Partnered with design and mobile teams to define precise software requirements, accelerating project delivery.
- Implemented rigorous testing & debugging protocols, reducing defects by 30%.
- Optimized database operations for scalable and efficient solutions.

Backend Engineer at Crea8genius Technologies

November 2023 – April 2024

- Developed and optimized internal tools (ISC metric, benefits app), reducing decision-making time by 75%.
- Delivered backend solutions for clients ahead of schedule, achieving 90% client satisfaction.
- Contributed to scalable API and database designs supporting enterprise clients.

EDUCATION

B. Eng Mechanical Engineering, Federal University of Technology, Owerri
October 2016 – December 2022

SKILLS

- Languages: JavaScript, TypeScript, Python, Rust
- Frameworks: Node.js, Express.js, NestJS, Django, FastAPI, React
- Databases: SQL (Postgres, MySQL), NoSQL (MongoDB)
- Cloud & Containers: AWS, GCP, Docker
- Messaging & Streaming: Kafka, Redis, RabbitMQ
- DevOps: GitHub Actions, Agile, Linux
- AI & ML: OpenAI API, Anthropic, Hugging Face, LangGraph, prompt engineering, Agentic, embedding models, Vector Databases (PineCone, Weaviate, Pgvector), temporal.