

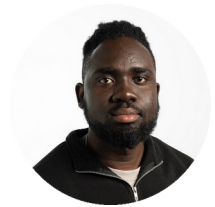
JEFFREY NANA BOAKYE

AI Solution Engineer | LLM, RAG & AI Agents in Production

jeffreyboakye2131@outlook.com · +49 15210932828 · Hamburg, Germany

LinkedIn: [linkedin.com/in/jeffrey-nana-boakye](https://www.linkedin.com/in/jeffrey-nana-boakye)

Portfolio: jnboakye.netlify.app



PROFILE

AI Solution Engineer with an MSc in IT Management (August 2026) who takes AI use cases from idea to production. I have built and operated LLM-based conversational agents serving 100–500 users per day, designed hybrid RAG pipelines (ChromaDB + BM25), and shipped REST APIs and workflow automations that integrate AI into real business processes. Certified in SAP Generative AI and the Claude API; working towards AWS Solutions Architect Associate. Pragmatic, hands-on, and comfortable translating business needs into scalable, cost-aware technical solutions.

SELECTED AI PROJECTS

JengaVest – AI Financial Analyst Platform jengavest.netlify.app

- Designed and built an end-to-end conversational analysis platform on the Claude API, combined with live stock and news data (Finnhub) for real-time market intelligence.
- Architected a hybrid RAG pipeline (ChromaDB vector search + BM25 keyword retrieval) for PDF document analysis, served by a Python/FastAPI backend and Next.js frontend.
- Tech: Python, FastAPI, Next.js, Claude API, ChromaDB, BM25, Finnhub API

StudyDrop – AI Study Platform studydrop-five.vercel.app

- Built a full-stack platform that turns any PDF into quizzes, flashcards, mind maps, summaries and a streaming AI tutor.
- Engineered structured JSON prompts for GPT-4o with real-time streaming via SSE; deployed on Vercel and Railway.
- Tech: Next.js, FastAPI, OpenAI API, Railway, Vercel

PROFESSIONAL EXPERIENCE

Full-stack Developer (AI Solutions), Silver Rock Technologies · Accra, Ghana / Remote 03/2025 – 12/2025

- Designed, deployed and operated conversational AI agents for restaurants and companies on Instagram and WhatsApp, handling roughly 100–500 users per day with human intervention rarely required.
- Integrated OpenAI and Google AI APIs into production conversational systems and automated lead-generation tooling.
- Built AI-driven platforms, including AI Learning Management Systems and intelligent lead-generation tools, from requirements through to live deployment.
- Designed and shipped REST APIs (Node.js, Express, MongoDB) with secure authentication and optimized data handling for reliable performance under real usage.
- Implemented workflow automations with n8n, Make and Langflow to connect AI capabilities to existing business processes.
- Tech: React, Next.js, Node.js, Express, MongoDB, n8n, Make, Langflow, OpenAI / Google AI APIs

Freelance Web & Digital Consultant, Self-employed · Accra, Ghana 02/2023 – 01/2025

- Built responsive websites and optimized Google Business Profiles for small and medium-sized businesses; ran Instagram and Facebook campaigns contributing to 45–60% sales growth for clients.

RF Engineer, Vodafone Ghana (Telecel) · Accra, Ghana 10/2021 – 02/2023

- Monitored and optimized radio network performance; analyzed network KPIs, troubleshoot coverage and signal issues, and supported site testing, maintenance and fault resolution with cross-functional technical teams.

EDUCATION

MSc Information Technology Management, Berlin School of Business and Innovation 02/2025 – 08/2026

BSc Telecommunications Engineering, Ghana Communication Technology University 09/2018 – 10/2023

TECHNICAL SKILLS

AI & LLM: LLM integration, RAG pipelines, AI agents, prompt engineering, OpenAI API, Anthropic Claude API, Google AI APIs, ChromaDB, Pinecone, BM25, Langflow

Programming: Python, FastAPI, Flask, TypeScript, JavaScript, Node.js, Express

Cloud & DevOps: Google Cloud, AWS (Solutions Architect Associate in progress), SAP BTP, CI/CD, Git/GitHub, Vercel, Render, Netlify, Railway

Data & Integration: PostgreSQL, MongoDB, Supabase, Firebase, REST APIs, workflow automation (n8n, Make)

Frontend: React, Next.js, React Native, TailwindCSS

CERTIFICATES

- SAP Generative AI Developer – SAP
- SAP Build Developer – SAP
- Building with the Claude API – Anthropic
- Conversational AI and Chatbot Systems Professional – BSBI
- AWS Certified Solutions Architect – Associate – AWS (in progress)

LANGUAGES

English – fluent (C2) · German – B1 (in progress) · French – A2 · Akan – native