**JOSEPH ADEABAH**
Full-Stack Engineer | Node.js, React, WebSockets & Real-Time Systems
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## PROFESSIONAL SUMMARY

Full-Stack Engineer with 4+ years building production systems in fintech, healthcare, e-commerce and emergency response. Delivered a payment platform serving 800+ users and a real-time location system for the German Red Cross. Strong in Node.js/NestJS, React/TypeScript, PostgreSQL, and AI tooling (LLM APIs, MCP, Claude Code). Seeking senior full-stack or AI tooling roles where I can own delivery end-to-end.

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## CORE SKILLS

- **Languages:** Python, JavaScript, TypeScript, SQL
- **Frameworks:** FastAPI, Node.js, Express, React, Next.js, Ruby on Rails
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Cloud & DevOps:** AWS (EC2, S3), Docker, GitHub Actions, CI/CD, Linux
- **AI & Tools:** LLM APIs, Claude Code, GitHub Copilot, Git

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## PROFESSIONAL EXPERIENCE

### AI ENGINEER (CONTRACT)
Product Manager Accelerator — Remote | June 2026 – Present

- Contribute to MyHealthNode AI, an AI-enabled healthcare platform, building React/TypeScript frontend and Python/FastAPI backend services used by ~9 pilot users.
- Designed document-processing workflows (upload → OCR → extraction → validation), cutting manual data entry time by ~60% for lab reports.
- Built conversational AI workflows integrating Twilio, GPT-Realtime, and Whisper, handling ~100 voice interactions per week with ~85% task completion accuracy.

### PRODUCT & ENGINEERING LEAD
BantuHive Ltd — Takoradi, Ghana | October 2024 – April 2026

- Led a team of 2 engineers and 3 managers to build a peer-to-peer investment platform supporting 800+ users.
- Designed and developed microservices using Node.js and Ruby on Rails, reducing API response times by ~40% through optimized queries and caching.
- Integrated Paystack and Stripe APIs with webhook processing, idempotency, and retries, safely processing ~$1,500 in monthly transactions with zero duplicate charges.
- Implemented an AI-assisted fraud detection workflow using LLM APIs, reducing manual review time by 20% and flagging ~15 suspicious transactions per month.
- Translated business requirements into technical specs and production features, delivering 4 major product releases over 18 months.

**SOFTWARE ENGINEER**
Amalitech Services GmbH — Takoradi, Ghana | October 2021 – September 2024

- Built and maintained production e-commerce applications using React, Next.js, and Node.js, serving 2 clients with 10,000+ active users.
- Developed and integrated REST APIs connecting front-ends with third-party systems, reducing integration errors by ~30%.
- Implemented automated CI/CD pipelines using GitHub Actions, cutting deployment time from hours to under 10 minutes.
- Refactored legacy React apps from class components to functional hooks, reducing frontend bug reports by ~25%.
- Deployed and managed infrastructure using AWS (EC2, S3) and Docker, maintaining 99%+ uptime across ~8 production deployments.

**SOFTWARE ENGINEER (PROGRAM)**
Digital Product School (UnternehmerTUM) — Munich, Germany | May 2023 – July 2023

- Collaborated with AWS and the German Red Cross to build an emergency-response location system, cutting estimated dispatch delay by ~6 minutes in prototype testing.
- Developed real-time Node.js/WebSocket functionality and integrated Twilio Voice APIs, supporting ~20 concurrent call sessions during testing.

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## SELECTED PROJECTS

**LEXEP — AI-Powered Mentorship Platform**

- Built a full-stack platform with JWT auth and RBAC across 4 user roles, tested with ~15 users.

- Engineered offline-first architecture with outbox sync, preventing data loss for ~95% of queued actions during simulated connectivity loss.
- Built an AI recommendation engine combining rules and LLM matching, improving match relevance by ~50% in internal testing.

**DRESTON ELITE MONTESSORI SCHOOL — Management System**

- Built a full-stack management app for ~150 students and ~10 staff, replacing manual record-keeping.
- Implemented backend-enforced RBAC for administrators, teachers, and accountants, eliminating unauthorized access in testing.
- Integrated SMS/email workflows for parent communication, delivering ~200 messages per month with ~98% delivery rate.

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## EDUCATION

**BSc Computer Science** — University of Energy and Natural Resources (UENR), Sunyani, Ghana — Graduated 2019

## CERTIFICATIONS

- AWS AI & ML Scholars Program — Udacity | 2026
- Digital Product School — UnternehmerTUM, Munich | 2023