

Cephas Osei-Bonsu

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EDUCATION

Livingstone College
B.S. Computer Science

Salisbury, NC
Expected Dec 2029

EXPERIENCE

Founder & Software Engineer, Vital-Go

2024 – Present

Real-Time Healthcare Monitoring Platform

- Built and tested a wearable-powered remote healthcare platform streaming patient vitals to a doctor dashboard using Python/FastAPI/PostgreSQL; processing 2,000+ readings/min and 5,000+ vitals/day.
- Implemented secure low-latency WebSocket streaming (<250ms) for 10+ device sessions, enabling real-time monitoring, risk scoring, and automated alerts (30+ alerts/day) to prioritize high-risk patients faster (~40%).
- Strengthened reliability with automated unit/regression testing + service refactors, reducing API failure rate by 30% and improving deployment safety.

IT & Graphics Specialist, View Printing

2022 – 2024

Marketing Design & Technical Support

- Designed 45+ marketing assets using Photoshop/Illustrator/CorelDRAW for 15+ client jobs/month, reducing delivery turnaround by ~20% and increasing repeat requests by ~15%.
- Resolved 10–15+ technical issues/week across systems and peripherals, reducing downtime by ~25% using diagnostic checklists (logs, connectivity, drivers) and preventive maintenance routines.
- Created standardized templates and streamlined key workflows (client intake, job tracking, file handoff) in Microsoft Office/Google Workspace, cutting administrative delays by ~30%.

PROJECTS

Interview Prep AI — Full-Stack Mock Interview Platform | *FastAPI, Postgres, LLM, RAG*

- Built an end-to-end mock interview platform (JWT auth + session state machine) for technical/behavioral prep targeting Amazon/Apple/Microsoft-style interviews; 300+ free users.
- Optimized interview flow and engagement through iterative testing, achieving 78.6% session completion with 4.64 questions/session and concise depth for high-quality practice.
- Implemented feedback-driven RAG (embeddings + similarity retrieval) to generate follow-ups from curated question banks across software engineering and cybersecurity roles.

PedraX — AI Document Intelligence Suite | *FastAPI, OCR, DeepSeek API, Render*

- Deployed a document intelligence engine on Render processing 100+ documents/day using async workers + queued processing for scalable request handling.
- Built PDF/DOCX/XLSX ingestion with OCR fallback; achieved ~95% extraction accuracy on structured fields.
- Reduced extraction time by ~45% (8–12s/document) for 50–200 page files using optimized pipelines.
- Automated summaries, quizzes, and DOCX/PDF reports, reducing manual review time by 70%+.

AI Resume Job Match Evaluator | *FastAPI, NLP, Embeddings, Dashboards*

- Built a FastAPI matching engine for jobs/scholarships/programs; processes 50+ resumes/day using normalized scoring rubrics for consistent evaluations
- Implemented TF-IDF + embedding similarity for semantic matching; reached ~85% agreement with manual review outcomes.
- Delivered dashboards for strengths/gaps/match%; reduced evaluation time by ~50% with clear, actionable results.

VERXA AI Website Builder | *Node.js, DeepSeek API, Netlify, HTML/CSS/JS*

- Built prompt-to-website generator producing complete HTML/CSS/JS templates; supports 15+ builds/day across portfolio/business/e-commerce flows.
- Implemented live preview rendering in <1.5s and multi-template generation with ~90% usability accuracy for core components.
- Integrated one-click Netlify deployment, cutting publish time from 10–15 minutes to <60 seconds.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL (PostgreSQL), HTML/CSS

Frameworks: FastAPI, React/Next.js, Node.js/Express

Tools & AI: Git/GitHub, Docker, Redis, Render, Netlify, VS Code, LLM APIs, RAG, NLP Scoring