

CEPHAS OSEI-BONSU

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EDUCATION

Livingstone College

Graduating December 2029

Major: BSc Computer Science, Minor in Artificial Intelligence

Relevant Coursework: Object-Oriented Programming and Data Structures (C++/Python), AI & Machine Learning, Calculus I, II,

Honors and Scholarships: Livingstone College Presidential Scholar

SKILLS

Languages: Python, C++, JavaScript/TypeScript, Java, SQL, HTML/CSS

Frameworks/Libraries: React, Next.js, Node/Express, FastAPI, Flask, Tailwind, Material-UI, TensorFlow, PyTorch, LangChain, HuggingFace, Pandas, NumPy

Tools: Firebase, PostgreSQL, Supabase, Vercel, Netlify, Git/GitHub, VS Code, Postman, Playwright/Puppeteer, Arduino IDE, OpenAI API

EXPERIENCE

Vital-Go – Founder & Software Engineer

Kumasi, Ghana | Jun 2025–Present

- Built real-time health monitoring features with Python, FastAPI, PostgreSQL, React, and WebSockets.
- Created AI-driven risk scoring and alert dashboards for patient oversight.
- Shipped reliable backend features through clean code, debugging, and Git/GitHub workflows.
- Improved system stability with targeted unit tests and API issue fixes.

View Printing — IT & Graphics Specialist

Kumasi, Ghana | Jan 2024–Dec 2024

- Designed professional marketing materials using Photoshop, Illustrator, and CorelDRAW.
- Led IT support, device security, network checks, and antivirus deployments.
- Streamlined office operations with Microsoft Office and Google Workspace tools.
- Delivered premium print outputs and supported clients with customized designs.

PROJECTS

PedraX – AI Document Intelligence Suite

[Link](#)

Tech: Python, FastAPI, PostgreSQL, AWS S3, PDF Processing, OpenAI API, Vue.js

- Built an AI-driven document engine that ingests PDFs, Word files, and spreadsheets, extracts structured data, and generates summaries, quizzes, and analyses.
- Implemented automated report generation (PDF/DOCX/TXT) with branding and comprehension checks.
- Delivered high-accuracy text extraction and optimized LLM routing for fast academic and business document interpretation.

AI Resume Job Match Evaluator

[Link](#)

Tech: Python, FastAPI, PostgreSQL, React, NLP Models

- Built an AI system that matches résumés to job descriptions, scholarships, and academic programs using custom NLP scoring algorithms.
- Created dashboards that highlight skill gaps, strengths, and fit percentages, with improvement reports.
- Implemented a full parsing → analysis → visualization pipeline to support data-driven career decisions.

VERXA AI Website Builder – Automated Website Generation

[Link](#)

Tech: Node.js, Express, React, Tailwind, Prisma, DeepSeek API, Netlify

- Built an AI-driven website generator that transforms user form inputs into complete HTML/CSS/JS templates using structured base prompts and custom user prompts.
- Implemented instant live preview, multi-template selection (portfolio, business, e-commerce), and seamless one-click deployment to Netlify.
- Developed a scalable TypeScript + Prisma backend powering a production-grade automated site builder.

Vital-Go – Real-Time Connected Health Monitoring Platform

[Link](#)

Tech: Python, FastAPI, PostgreSQL, WebSockets, React, IoT Sensors, AI Analytics, WebRTC

- Built a connected-health system streaming real-time vitals from wearable IoT sensors to a secure dashboard.
- Added AI-driven trend detection and risk scoring for early health alerts.
- Developed patient and doctor portals with scheduling, alerts, analytics, and summaries.
- Implemented low-latency transport using WebSockets/WebRTC on a scalable FastAPI backend.