Isaac Yaw Amponsah

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PROFESSIONAL SUMMARY

Software Engineer with expertise in Python, JavaScript, and backend development. Experienced in building scalable web applications and cloud solutions, with strong skills in debugging, database design, and technical writing.

EDUCATION

Kwame Nkrumah University of Science and Technology   **January 2021 – August 2024**

Program: Bachelor of Science, Computer Engineering
Relevant Courses: Operating Systems, Data Structures and Algorithms, Software Engineering, Object Oriented Programming, Computer Networking and Database systems (MySQL and PostgreSQL)
 Class: First Class Division

African Leadership X (ALX)   **September 2022 – October 2023**

Program: Software Engineering (Backend Specialization)

Relevant courses: JavaScript (JS), Python, MySQL, Unit Testing, API, and Linux command line

Capstone Project: decsionHQ (Online Voting Platform) (Collaboration Project) – Frameworks: Flask, MySQL.

PROFESSIONAL QUALIFICATIONS

Cisco Network Technician Career Path	**See Credential**	**February 2024 – March 2024**
AWS Academy Cloud Security Foundations	**See Credential**	**February 2024 – March 2024**

PROJECTS / ACHIEVEMENTS

Smart Driver Drowsiness Detection using Fast Objects More Objects (FOMO)   **January 2024 – August 2024**

- Designed a machine Learning Model and leveraged   Arduino Nicla vision to detect driver fatigue | **View Project**
- **Stack and Tools:** MicroPython, FOMO, Edge Impulse, OpenMV, Arduino Nicla Vision

Eduhub – An E-Learning Web Application

- Designed a web application platform to streamline online education for clients.   **May 2024 – May 2024**
- **Stack:** Flask, MySQL: **View Project**

Internship Registration and Application Portal   **September 2023 – November 2023**

- Designed the backend of a web-based internship Application portal for students seeking internship opportunities at Volta River Authority. **Languages:** React, Flask, MySQL

WORK EXPERIENCE

Technical Writer (Personal blog)   **May 2022 – Present**

- I write about computer science-related topics and New Technology
  - Building a Strong Foundation with Flask Framework | link
  - Building Better Code with Data Structures | link
  - Efficient File Transfer with SCP: Bridging the Gap Between Local and Remote Machines | link
  - Mastering Arrays in C and C++: Unlocking the Power of Data Structures | link

Backend Developer Intern at Volta River Authority, Accra Ghana   **September 2023 – November 2023**

- Worked in the Management and Information Systems Department as a Backend Developer
 Languages and Tools used: Python, MySQL

SKILLS AND INTERESTS

Hard Skills: Python, Python Frameworks (Flask and Django), Linux shell, Version Control, Databases, Technical Writing

Soft Skills: Teamwork, Problem Solving, Time management and Good work Ethic

REFERENCES

Available upon request