NANA KWAKU AMOAKO

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EDUCATION

Ashesi University   **Berekuso, Eastern Region**
BSc. Computer Science   **Expected Date of Graduation: Jun 2026**

Relevant Coursework: Software Engineering, Object-Oriented Programming and Data Structures (Java), Web Technologies (HTML & CSS, Javascript, PHP, SQL), Intermediate Computer Programming (C++, Unix Tools & Scripting, Assembly Language), Artificial Intelligence (Python), Database Systems (SQL)

ACHIEVEMENTS/AWARDS

Best Position Paper, UNHCR, Model United Nations   **Jan 2022**

WORK EXPERIENCE

Npontu Technologies – Dansoman, Accra   **Jun 2023 – Jul 2023**
Intelligent Systems Intern
- Developed a search functionality **API using Flask** to reduce query processing times by 40% for large datasets.
- Gained a comprehensive understanding of Data Science and ML through training & testing robust ML models.

PROJECTS AND RESEARCH

NanoClip - Universal Clipboard & File Sharing| React, NextJS, Firebase   **Nov – Dec 2024**
- Developed a secure and robust file sharing and universal clipboard to access text & files across devices.
- Designed a scalable backend using Firebase for efficient storage and management of shared content.

Cocoa Stock Price Prediction | Python, Flask, TensorFlow, Streamlit   **Jun 2024**
- Engineered a cocoa market price prediction model using an **LSTM neural network.**
- Employed feature engineering techniques for improved forecasting with **90% accuracy** (MSE of 0.00048 and MAE of 0.0215).

Volume Gesture Control, Machine Learning Project | Python, MediaPipe   **Jun – Aug 2024**
- Conceptualised a gesture-controlled volume control system using computer vision with real-time hand tracking via the **MediaPipe** library with a 95% accuracy rate.
- Mapped the distance between thumb and index finger to system volume adjustments, providing visual feedback through **OpenCV**, resulting in lossless tracking at up to 30 FPS.

Virtual File Management Explorer/System | Java   **Jul 2024**
- Designed and implemented a file management system for file creation, deletion, movement, and sorting.
- Built a **GUI** and **CLI** utilising a **tree data structure** to efficiently manage and navigate **hierarchical directory structures.**

CO-CURRICULAR ACTIVITIES

TEDxAshesiUniversity – Ashesi University   **2024 – Present**
Lead Graphic Designer
- Led the creation of marketing materials, flyers and social media content to promote TEDx events on campus.
- Collaborated with the organising team to ensure cohesive visual storytelling across all promotional platforms.

Ashesi Student Council – Ashesi University   **Jan – Present**
Public Relations Officer
- Spearheaded the creation of digital and print media campaigns to promote the council's initiatives and events.
- Managed content strategy and communication channels, ensuring timely & effective outreach to students.

SKILLS

- **Programming languages**: Java, Python, SQL, JavaScript, C++, R, PHP, React, Assembly
- **Frameworks & Libraries**: Pandas, Keras, TensorFlow, Streamlit, NextJS, Arduino, Flask, Django, LaTeX
- **Tools & Technologies**: Git, Docker, Kubernetes, REST APIs, Linux, Sentry, Agile methodologies
- Proficient with software diagramming and UI/UX design tools, including Figma & AdobeXD
- Proficient in Microsoft Office Suite (Word, Excel, OneNote, PowerPoint) and Google Workspace
- Skilled in graphic design using Adobe Illustrator, InDesign, and Photoshop and video editing with Final Cut Pro and Premiere Pro
- Advanced proficiency in English and Akan; basic proficiency in French