

Nana Kwaku Osei-Opoku

CONTACTS

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EDUCATION

Academic City University College (*currently enrolled*)

Accra, Ghana

B.Sc. Computer Science, *First Class Honors*

Since Sept. 2021

Lincoln Community School

Accra, Ghana

International Baccalaureate Diploma

2019 – 2021

AWARDS& ACCOLADES

Overall Best Student, Computational Sciences

2023, Academic City University

Presidential Scholarship Recipient

2021, Academic City University

Dr Dennis Larkin Scholarship Recipient

2019, Lincoln Community School

WORK EXPERIENCE

Ghana Commercial Bank, *Junior Software Engineer Intern*

- Collaborated with the ASP.NET team to maintain the banking app and engaged in product decision-making processes, recommending feature enhancements based on user insights.
- Applied Kanban and Azure DevOps to streamline workflows and improve software delivery timelines.
- Spearheaded a full-stack personal project to design an e-commerce web app using C# and Blazor demonstrating expertise in such modern frameworks.

KMPG West Africa, *Information Technology Consultant Intern*

- Contributed to the development of an Enterprise Privacy Impact Management System for Ghana Commercial Bank PLC, ensuring adherence to GDPR, ISO 27701, and NIST standards.
- Conducted a company-wide gap analysis of customer PII handling across 55 departments.
- Propose anonymization and pseudonymization techniques for enhanced data security whilst presenting findings in technical presentations to cross-functional teams, translating complex concepts into business solutions.

SKILLS & CERTIFICATIONS

Software Skills: Languages: Python, SQL, R, C#, C++, Java, JavaScript

Frameworks: TensorFlow, PyTorch, Scikit-learn, OpenCV

Tools: Azure DevOps, Google BigQuery, Terraform, Airflow, Power BI, Docker, Flask, FastAPI

Soft Skills: Leadership, Collaboration, Proactivity, Communication

Languages: English, French and Spanish

EXTRA-CURRICULARS

Vice President, *Acity Music*

Led a team to organize multiple events, such as the African Diversity Day, including liaising with technical, creative, and administrative teams to ensure successful musical performances.

Bass Player and Music Producer, *JOY Ministry*

Instrumentalist and coordinator during church ministrations and the Celebration of Praise gospel concert every December.

COMMUNITY SERVICE

Python Tutor, Zipline Theory

Tutored high school students in Python and Economics during the COVID-19 lockdown, fostering programming skills through engaging exercises.

PROJECTS

AI Personal Trainer: Built an OpenCV app that uses a webcam to track exercise routines and provide feedback on posture correction. For instance, counting the bicep curls, push-ups or sit-ups. This allows busy workers to structure their workouts straight from the comfort of their homes or offices.

Interactive Map: Modified and revised an OpenCV app that tracks users' fingers using a mobile phone as a webcam and displays information about geographical locations on a 2-D map. For example, displaying the average flight time and distance between two countries.

THESIS

Interpretable Landslide Detection Using U-Net: Enhanced Disaster Prevention in the Ghanaian Context

This study leverages a U-Net model trained on the Landslide4Sense dataset to identify landslide-prone regions in rural Ghana. To improve model interpretability, Saliency Maps, Grad-CAM, and Sensitivity Analysis are employed, alongside an emphasis on key environmental factors like slope and terrain features that influence detection and susceptibility to landslides. The findings aim to provide actionable insights for regional disaster management and mitigation efforts.