

NARTEY

ELIZABETH-LYNDA

Washington, DC

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Aspiring Quantitative Analyst with expertise in business analytics, statistical modeling, and machine learning.

INTERESTS

Business Analytics, Big Data Analysis, Artificial Intelligence & Quantitative Modelling.

SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn), C++, SQL, R, SAS

Systems: Linux/Unix, Git, Cloud (AWS/Azure), TensorFlow, API

Quantitative Tools: Statistical Modeling, Machine Learning, Optimization, Simulation, Data Visualization

DATA SCIENCE PROJECTS

Kaggle Portfolio – Performed *quantile regression, time-series modeling, and financial forecasting* using Python and ML.

Business Analytics Data Simulation

Simulated synthetic datasets using AI tools and statistical techniques to analyze performance variability with ML models.

Blockchain System (Hackathon) - Built a secure blockchain framework enhancing data integrity.

AI Sign Language Translator -

Developed a CNN- and NLP-based real-time gesture recognition model for automated translation.

Interactive R Shiny Visualization -

Designed an interactive R Shiny web application using API-sourced cybersecurity data to visualize vulnerability severity trends across the U.S. and globally.

EDUCATION

American University, Washington, DC - Graduate Assistant 2026

MS Data Science in Business Analytics 3.8 GPA

Kwame Nkrumah University of Science and Technology, Ghana 2022

BS Computer Science

RELEVANT CERTIFICATIONS

Machine Learning & Data Analytics

- **SAS Certified Specialist:** Machine Learning Pipelines
- **SAS Certified Specialist:** Visual Business Analytics
- **SAS Certified Specialist:** Modelling Using SAS Visual Statistics
- **SAS Certified Associate:** Programming Fundamentals
- **Advanced Google Analytics**
- **Huawei 5G Signaling Expert**
- **Girls Are ELITE Programming Certification**
- **Lead it Africa** Public Speaking & Development Training.

LEADERSHIP AND WORK EXPERIENCE

Vice President CAS Graduate Students', American University Fall 25/26

Social Media Mgr., American Statistical Society, AU Fall 25/26

Graduate Trainee, MTN Ghana 2022 - 2025

- Assisted in **optimizing 5G network architecture**, improving signal processing efficiency after a 3-week training in China.
- Developed Python-based optimization and automation tools improving signal processing, demonstrating strong algorithmic and analytical problem-solving skills.

Vice President, Computer Science Women's Commission 2021/2022

EXTRACURRICULAR & VOLUNTEERING

National Science and Math Quiz Semifinalist, 2018

- Represented *Ghana National College* in Ghana's top **STEM** competition, showcasing precision and attention to detail.

KNUST Alumni Tree Planting and Arboretum project

- Participated in a tree planting exercise towards the United Nations Sustainable Development Goals 13 and 15.

Peer Mentor, Mamfe Youth Mentorship

- Mobilized graduates to provide mentorship to high schoolers and create STEM awareness to rural communities in Ghana.

WORK AUTHORIZATION

Eligible to work in the U.S. - OPT/CPT valid through 12/2028