ANDERSON G. NYAGA

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SUMMARY

Civil Engineering graduate from Arizona State University (B.S.E.) who applies data science to solve complex technical problems. Combines a strong foundation in technical analysis and process improvement with hands-on expertise in business intelligence, machine learning and AI. Known for strong analytical thinking and a collaborative approach to transforming complex data into actionable insights that optimize project outcomes and drive data-informed decisions.

EDUCATION

B.S.E., Civil Engineering   **December 2019**
Arizona State University, Tempe, AZ, USA

Certificate, Data and AI   **August 2025**
Cyber Shujaa, Nairobi, Kenya

SKILLS

- **Programming & Data Science Libraries:** MATLAB, Python, Pandas, NumPy, Scikit-learn, TensorFlow, Keras
- **Data Analysis & Visualization:** EDA, Statistical Analysis, Numerical Analysis, Data Wrangling, Matplotlib, Seaborn, Plotly, Power BI, Tableau
- **Data Engineering (** IBM Data Engineering Certificate **):** Relational databases (SQL), NoSQL, big data engines, data warehouses (PostgreSQL), ETL pipelines (Apache Airflow), data workflow optimization, Linux shell scripting, Python
- **Business Intelligence:** Dashboard Development, Data Modeling, KPI Tracking, ETL, Power Query, DAX
- **Machine Learning & AI:** Regression Models, Decision Trees, Random Forest, KNN, Naive Bayes, SVM, Neural Networks, Generative AI (RAG, LLMs), NLP, MLOps (Pipelines, Model Deployment)
- Microsoft Office Suite
- CAD Design
- Geotechnical Engineering principles

WORK EXPERIENCE

United States International University - Africa, Nairobi, Kenya   **Instructional Design Graduate Associate**
08/2024 – 08/2025
- Assist in the instructional design and development of high-end, multidisciplinary courses, ensuring engaging, effective, and learner-centered content.

Hoque and Associates, Phoenix, AZ, USA   **Geotechnical Engineering Associate**
09/2019 – 03/2021
- Drafted detailed engineering designs and plans for construction projects and performed Cross-Hole Sonic Logging (CSL) integrity tests for drilled shaft foundation piles to assess their soundness and quality.

Arizona State University, Tempe, AZ, USA   **Teaching Associate**
08/2018 – 05/2021
- Supported undergraduate instruction by assisting in lab sessions, preparing materials, and guiding students through technical coursework in Geotechnical Engineering and Numerical Analysis.

Arizona State University, Tempe, AZ, USA   **Research Associate**
01/2019 – 05/2020
- Contributed to geotechnical research by utilizing analytical tools such as MATLAB, conducting soil classification tests, and collaborating with faculty to achieve defined project objectives.

Equity Bank, Nairobi, Kenya   **Relationship Officer**
03/2014 – 07/2015
- Supported daily banking operations by providing excellent customer service and working with teams to improve efficiency while ensuring compliance with regulations.

ACTIVITIES

Geo – Institute, ASU
Delegate
01/2020 – 02/2020
- Represented Arizona State University at the ASCE Geo-Institute's National Geo-Wall Design competition during Geo-Congress 2020 in Minneapolis, Minnesota.