

STELLAMARIS NAKACWA

Stellanaks16@gmail.com | Arlington, VA, US

AWS Certified Cloud Practitioner and Data Engineer with 5 years of geospatial science expertise. Proficient in Python, R and has a strong background in communicating technical concepts to non-technical stakeholders. Extensive experience in statistical and machine learning data processing.

EDUCATION

AWS Certified Cloud Practitioner	2024
West Virginia University, USA	2022
Masters in Geography/Geospatial Science	
Makerere University, Uganda	2018
Bachelor of Science in Land Surveying & Geomatics	

RELEVANT SKILLS

AWS Ecosystem & Serverless Architecture, Modern Database Architecture & PostgreSQL, Natural Language Processing (ETL), Data Pipelines, Python, R & SQL.

WORK EXPERIENCE

NETL Research Scientist – Data Engineering Remote, Present.

- Cloud Computing and Infrastructure Mgt.: Implementing and optimizing custom ETL tools and pipelines using python, OCR-NLP and cloud architecture, enhancing application scalability and efficiency by 80%.
- Data Governance & Security: Develop architecture and maintain data frameworks ensuring robust and efficient data flow and quality in data pipelines.
- Team Leadership and coordination: Collaborate with 5 cross-functional teams to deliver advanced data management and analysis strategies for.

Program Director, Everywhere She Maps, YouthMappers 2023 Remote, USA

- Directed a global capacity-building program, creating a GIS and data framework impacting over 50 million women, ensuring effective data governance and strategic project execution.
- Managed and optimized data modelling projects workflows, enhancing data identification and processing for machine learning, and ensuring 100% project success.
- Administered a \$100,000+ budget for agricultural data projects, significantly improving data collection and analysis, and collaborating with cross-functional teams to deliver impactful learning and data management strategies.

Project Coordinator, Water Infrastructure Mapping, WVU 2021-2022 WV, USA

- Reviewed the GIS data strategy and catalogs for the Centre for Resilient Communities, enabling the successful development and application of GIS tools such as ArcGIS Hub, which improved community data agency and change by 100%.
- Led the technical implementation of scalable infrastructure mapping data model for bridging OpenStreetMap (OSM) and WPDx data platforms, enhancing data integration and usability, doubling data accessibility and utility for stakeholders.
- Managed fieldwork processes and supervised 20-member team, achieving 100% project success and securing budget approvals, leading to increased funding and project continuity.

COMMUNITY INVOLVEMENT and SPECIAL PROJECTS

- HOT & OpenStreetMap Uganda: Voting Member, Governance Working Group Member
- YouthMappers Program and State of the Map: Regional Ambassador (2019 – 2021)