

ADEDOYIN SAMUEL AJEYOMI

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[Google Scholar](#) | [Portfolio](#) | [LinkedIn](#) | [Github](#)

CAREER OBJECTIVES

To build and deploy end-to-end data solutions that transform raw, complex datasets into reliable decision-making tools, covering the full data lifecycle, data collection, engineering, modeling, analytics, visualization, and reporting. My goal is to become a leader in the data and research sector, driving practical, scalable, and impactful solutions for environmental, development, and real-world challenges, rather than focusing solely on algorithm development.

WORK/PROFESSIONAL EXPERIENCE

Data Engineer Consultant (Contract)

International Water Management Institute (IWMI)

March 2026 – August 2026

- Designed and maintained the canonical data schema, data dictionary, and integration mappings supporting the Demand Intelligence Platform (DIP) and Enabling Environment Digital Toolbox.
- Built repeatable, versioned ETL pipelines to ingest, normalize, validate, and load datasets from policy documents, surveys, workshop reports, and innovation repositories.
- Implemented automated data quality systems including schema validation, duplicate detection, anomaly checks, broken-link monitoring, and validation reporting.
- Developed integration pipelines with CGIAR knowledge systems, including CGSpace and CGIAR Performance and Results Management System (PRMS), enabling interoperable data exchange and innovation–demand linkage.
- Established data operations infrastructure with scheduled ingestion workflows, monitoring, logging, and runbooks to support the transition from PoC to operational MVP platforms used across global CGIAR programs.

Data Engineer/ Dashboard Developer

Spatialnode Inc, Delaware, USA (Project-Based Contract).

August, 2025 – January, 2026

- Worked on the **Multidimensional Inclusivity Index (MDII)** and **Demand Intelligence Information System (DIIS)** projects, delivering end-to-end data and analytics solutions for decision support.
- Handled the full data lifecycle across both projects, including data ingestion, cleaning, preprocessing, transformation, validation, and storage using DAX, Python, and Azure Functions.
- Built and maintained CI/CD pipelines to automate data processing workflows, dashboard updates, and report refreshes, ensuring reliability and reproducibility.
- Developed interactive Power BI dashboards and analytical reports, enabling evidence-based decision-making across Nigeria, Bangladesh, Ethiopia, and other countries.
- Processed, standardized, and analyzed 10,000+ records from multi-source, unstructured, and semi-structured datasets, improving data quality and usability.
- Extracted and structured critical indicators and insights from documents, and collaborated with stakeholders to define metrics, reporting requirements, and analytical outputs.

Geospatial Data Engineer/Backend Developer (Contract)

Envirotrust (<https://envirotrust.eu/>), Germany (Remote)

June 2025 to March 2026

Built scalable ETL pipelines and RESTful APIs to process and serve large geospatial datasets (Zarr, COG, Parquet) using Xarray, DuckDB, FastAPI, and Titiler for real-time visualization and analysis.

- Deployed cloud-native infrastructure on AWS (S3, Lambda, EC2) with Docker and CI/CD (GitHub Actions) to automate, scale, and maintain geospatial workflows.
- Led collaborative development on GitHub, ensuring clean code, agile iteration, and reliable deployment across remote teams.
- Engineered data pipelines to source and aggregate diverse geospatial data for wildfire, flood, heat, and wind risk modeling, preparing it for cloud-based analysis.
- Developed scalable data aggregation strategies for environmental risk parameters, optimizing data transfer to

cloud platforms for advanced scenario modeling.

Geospatial Data Analyst / Trainer

2022 – 2025

Integral Bridge Solutions (Part-time), Abuja, FCT, Nigeria

Responsibilities:

- Led the development of proposals, workplan designs, and technical report writing
- Trained clients and end users in using our in-house solutions and various GIS tools
- Led a team of analysts on Geospatial and Statistical Analysis and Modelling using various data formats, both spatial and non-spatial.
- Performed advanced geospatial analysis and modeling using machine learning techniques and Google Earth Engine.
- Automating traditionally manual geospatial workflows through scripting and process optimization.

Geospatial Analyst (Hybrid),

2023 – 2024

Milsat Technologies Limited, Abuja, Nigeria

Responsibilities:

- Performed advanced data analytics to uncover insights and trends, enhancing decision-making accuracy.
- Led the Design and management geospatial and statistical dashboards for real-time monitoring and analysis.
- Developed and optimized ETL processes for efficient data extraction, transformation, and loading.
- Implemented and maintained databases to improve data storage and retrieval.
- Led the designed unbiased survey questionnaires to enhance response accuracy and reliability.

Geospatial Research Assistance

July 2020 –

September 2020

The Nigeria Erosion and Watershed Management Project (NEWMAP)

Responsibilities:

- Analyzed water flow patterns using geospatial data to assess flood risks and water resource management.
- Developed flood hazard maps by integrating satellite imagery, elevation models, and hydrological data.
- Created digital elevation models (DEMs) for infrastructure planning, erosion control, and terrain analysis.
- Conducted land use classification and watershed delineation to study environmental changes and water management.
- Assisted teams in learning GIS tools, remote sensing techniques, and data visualization for effective decision-making.

EDUCATION

- **Bachelor of Technology in Remote Sensing and Geoscience Information System** **2016 - 2023**
Federal University of Technology Akure (FUTA), Nigeria

PROFESSIONAL CERTIFICATE

- **WorldQuant University – Applied Data Science Lab** **2025**
<https://www.credly.com/badges/6fcb79c5-11a5-4eac-bfb4-c723f9d42419>
- **AWS Cloud Practitioner** **2023**
https://www.credly.com/badges/8783fbc3-adeb-4462-9ae2-f1d170a09536/public_url

TECHNICAL SKILLS

Data Engineering & Programming: Python (Pandas, GeoPandas, Gdal, Shapely, Rasterio, DuckDB, Scikit-learn, FastAPI), SQL (data modeling, querying, transformations), R, Bash, Backend development and API-based data services

Data Analytics & Visualization: Excel, Power BI (data modeling, dashboards, reporting), KPI development, analytical workflows, insight generation

Cloud, DevOps & Infrastructure: AWS, GCP, Azure Functions, and cloud-based data pipelines, CI/CD pipelines, workflow automation and Docker

Geospatial & Remote Sensing (Supporting): Google Earth Engine (GEE), QGIS, ESRI Suite (ArcGIS Pro, ArcPy, ArcGIS Online), OpenStreetMap (OSM), JOSM

PROFESSIONAL SKILLS

- Research writing, methodology development, and result interpretation
- Technical documentation, reporting, and presentation
- Stakeholder engagement and requirements gathering
- Communicating complex data insights to technical and non-technical audiences
- Problem-solving, analytical thinking, and collaboration

LANGUAGES

English – Fluent (speaking, reading, writing, listening), **Yoruba** – Native

HONORS, AWARDS AND RECOGNITIONS

- Recipient, **META/DSN Geospatial Health Mobility Hackathon (Nigeria) (\$1000)** [\[Link\]](#), 2023
- Recipient, **ESRI Young Scholar (YSA) (Nigeria)** 2023
- Recipient, **Mappa Data Engineering Project Competition (£250)** 2023
- Recipient, **URISA Top 3 position in the 2023 GIS Pro Digital Competition** 2023
- Recipient, **Jamitan/OSGOF GIS Day 2023 (\$200USD) and a 1year ESRI License** 2023

PROFESSIONAL MEMBERSHIP

- Professional Member, Spatial and Data Science Society of Nigeria **2019 to Date**

LEADERSHIP AND VOLUNTEERING EXPERIENCE

Training and Capacity Development Lead **2023 to Date**

Spatial and Data Science Society of Nigeria (SDSN)

- Facilitated several educational programs such as workshops, and continuing to creating contents to enlighten people on GeoAI.
- Mentoring and engaging new professionals within the geospatial domain.
- Support the development and upgrading of the society website while managing and coordinating the process.

GIS Analyst **2021 – 2022**

Omdena Lagos Chapter Nigeria [\[Certificate\]](#)

- Worked on local community projects, conducting geospatial analysis of pipe-borne water availability in Lagos and electricity energy distribution in Nigeria
- Provided Geospatial Support on another Project where we try to Estimate and understand Electricity availability and accessibility using GeoML.
- Worked as one of the Public Relations Officer of the Group

OpenStreetMap Contributor **2019 – 2023**

YouthMapper FUTA Member

- Facilitated community building and collaboration while conducting OSM mapping training sessions, successfully recruiting new members to expand impact.
- Contributed to Data Geospatial Digitization towards Humanitarian Purpose through HOTOSM
- Served as the Welfare Coordinate to manage and oversee the welfare of the community members

GIS Analyst | Field Data Collector Officer **2021 - 2022 (8 months)**

YouthMapper Research Follow Project (Wastespy)

- Designed and implemented questionnaires using KoboToolbox and mapped illegal dumpsites in Ibadan with KoboCollect, performing spatial analytics for insights.

- Validated, cleaned, and migrated field data to databases using Python.
- Created reports and visualizations to communicate findings to stakeholders.

REFEREES

Available upon Request