

# Emmanuel Alafaa

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## OBJECTIVE

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Analytical and impact driven Data Scientist with hands-on experience in geospatial analytics, data science, and infrastructure mapping. Passionate about applying data science to real-world environmental and infrastructure challenges. Seeking to contribute analytical expertise and mapping skills.

## RELEVANT EXPERIENCE

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### PlanetSapling | Remote

01/2025 – Present

*GIS Analyst; org dedicated to using data-driven solutions and media content creation to tackle climate change.*

- Led Infrastructure Impact Analysis using QGIS, evaluating risk to over **480 km of roads and 190+ utility lines** from wildfire zones.
- Conducted wildfire damage assessments integrating **Sentinel-2 imagery** and **public shapefiles**.
- Mapped and updated infrastructure data using **OpenStreetMap** and **open-source datasets**, improving data accuracy for community resilience planning.

### Humanitarian OpenStreetMap | Remote

09/2024 – Present

*Remote Mapper; org dedicated to humanitarian action and community development through open mapping.*

- Contributed to **3 humanitarian mapping projects**, supporting emergency and post-disaster response.
- Used **ID** and **JOSM editors** to digitize critical infrastructure in underserved regions.
- Collaborated with global volunteers to maintain high-quality spatial data standards.

### Spurt! | Remote

03/2024 – 12/2024

*Project & Operations Analyst; org building technology solutions for business growth & workforce management.*

- Managed end-to-end delivery (onboarding, execution, closing) of **5+ digital innovation projects** for African SMEs.
- Created and maintained internal **dashboards** for tracking team progress and **KPIs**.
- Conducted market research in East and West Africa, supporting product localization.
- Provided technical support and troubleshooting, delivering regular status updates for clients, stakeholders and management.
- Collected, verified, and entered leads and profile data for targeted outreach on company products and events.
- Supported team leads in completing mandatory training and created user-friendly documentation for internal and external users.
- Designed presentation decks for internal meetings, effectively communicating project details and progress.

### Hamoye | Fully Remote

03/2024 – 08/2024

*Data Engineering/MLOps Intern; gen AI, data science/engineering/storytelling, e-learning platform*

- Co-led development of machine learning model predicting malaria outbreaks with **>70% accuracy** using historical climate and health data.
- Built data pipelines for models on electrification gaps across Sub-Saharan Africa using **Streamlit** and **python**.
- Created and deployed user-friendly data applications with Streamlit, using **Git** and **GitHub** for version control and collaboration.

### Lagos State Ministry of Energy & Mineral Resources | Onsite.

09/2022 – 06/2023

*NYSC Technical Assistant; agency responsible for developing sustainable policies for energy/mineral resources exploration.*

- Conducted GIS mapping of **10+ energy installations** across Lagos.
- Performed spatial risk analysis to support government decision-making on energy investments.
- Maintained and cleaned **geospatial datasets** for internal use and federal reporting.

## **PROJECT & ADDITIONAL EXPERIENCE**

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- **Mapping Geographical Locations of Nigerian Mineral Deposits and Infrastructures | ArcGIS:** [Project Link](#)
  - Interactive maps and dashboards showcasing mineral distribution, infrastructure locations with relevance to monitoring, storytelling and reporting.
- **Tableau Dashboard Portfolio |** [Dashboard Link](#)
  - Interactive dashboards covering energy access, climate data, and infrastructure vulnerability.

## **CERTIFICATES & COURSES**

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- IBM Data Engineering Professional Certificate (Coursera) | **2023 – 2024**
- IBM Data Science Professional Certificate (Coursera) | **2023**

## **SKILLS & INTERESTS**

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**Skills:** Python (Intermediate), SQL (Intermediate), Git (intermediate), Business Analysis (Tableau, Power BI), Troubleshooting & Technical Support (Zendesk, TeamViewer), & Database management, OpenStreetMap (OSM), ID Editor and Java OpenStreetMap (JOSM) Editor

**Interests:** Writing, Podcasting, Reading.

## **EDUCATION**

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University of Benin, Nigeria | BEng in Petroleum Engineering