REGINA DERI

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PROFESSIONAL SUMMARY

GIS and Remote Sensing Analyst with an MSc in Satellite Data Science and a BSc in Computer Science. Experienced in conducting spatial analysis, EO data processing, and geospatial modelling to support evidence-based decision-making in environment, infrastructure, and development. Strong ability to translate complex spatial data into actionable insights using tools like ArcGIS Pro, QGIS, and Python. Seeking to contribute to multidisciplinary teams solving climate, sustainability, and infrastructure challenges through data-driven innovation.

CORE SKILLS

- GIS & Remote Sensing Tools: ArcGIS Pro, ArcGIS Online, QGIS, ERDAS IMAGINE, ENVI

- Web GIS Applications: ArcGIS Dashboards, Experience Builder, Survey123

- Spatial Analysis & Visualisation: Python (GDAL, rasterio, geopandas, NumPy), R (ggplot2, raster), Excel

- Proficient in Microsoft Office suite (Word, Excel, PowerPoint, Outlook)

- Effective Communication: Engaging technical and non-technical audiences

- Strong attention to detail and creative approach to problem-solving

- Geodatabase design, database management, SQL (MySQL)

- Collaborative Multidisciplinary teamwork and problem-solving skills

RELEVANT EXPERIENCE

GRADUATE RESEARCHER (MSc Satellite Data Science), Sept 2023 – Oct 2024
University of Leicester – Leicester, United Kingdom

- Delivered a wide range of geospatial projects addressing real-world issues across environmental, urban, energy, and disaster contexts using ArcGIS Pro, QGIS, Python, ERDAS IMAGINE, ENVI, R, and Google Earth Engine.

- Collected, cleaned, and analysed Earth Observation (EO) data from Sentinel-2, Landsat, and other remote sensing sources to support spatial decision-making.

- Built geodatabases and designed automated geospatial workflows for data manipulation, classification, change detection, and mapping.

- Communicated technical findings through interactive maps, dashboards, reports, and presentations tailored to non-technical audiences and academic panels.

- Applied spatial analysis, LULC classification, supervised learning, and GIS-based modeling techniques to uncover patterns, predict trends, and evaluate risks.

CUSTOMER SUPPORT ENGINEER, March 2022 – July 2023
Layer3 - Abuja, Nigeria

- Delivered frontline technical support for 2,500+ clients across sectors, including government, education, finance, and healthcare, resolving service issues and providing expert assistance via phone and email.

- Diagnosed and resolved customer issues related to network and cloud, consistently reducing average resolution time by 30% and achieving an 85% satisfaction rate.

- Maintained and updated client accounts using CRM tools, ensuring data accuracy and streamlined documentation across all touchpoints.

- Collaborated with network and infrastructure engineers to identify and resolve systemic service issues, contributing to a 20% improvement in network efficiency.

- Participated in service meetings and presented technical recommendations that improved network reliability.

DATA ANALYST INTERN, Sept – Nov 2022

PAWA Initiative - Abuja, Nigeria

- Performed data cleaning, transformation, and quality control in Excel and SQL, improving data integrity and enabling more reliable reporting and insights.
- Created easy-to-understand data visualisations and reports for non-technical stakeholders.
- Worked collaboratively with cross-functional teams to understand project goals and deliver relevant insights.
- Developed interactive dashboards and summary reports to visualise key trends, patterns, and demographic correlations.

SELECTED PROJECTS

- Mapping and Monitoring Landfill Dynamics in Lagos, Nigeria: Developed a satellite-based methodology to map and analyse landfill expansion using Sentinel-2 and Landsat imagery. Applied machine learning classification (MLC, SVM, RF) and integrated spectral and textural indices for enhanced accuracy.
- Urban Expansion Monitoring in Makurdi, Nigeria: Analysed LULC changes using multi-temporal Landsat imagery (2001–2020), identifying urban growth patterns and environmental impacts.
- Spatial Analysis of Oil and Gas Pipeline Accidents in Texas: Conducted spatial risk mapping of pipeline accidents using R, GIS, and statistical models, highlighting vulnerable zones and exposure trends.
- Wildfire Severity Assessment in Tenerife, Spain (2023): Assessed wildfire impacts using Sentinel-2 imagery, applying remote sensing indices (NBR, NDVI) to classify burn severity.
- Accessibility Mapping on the Isle of Wight: Performed GIS spatial analysis to assess accessibility to bank branches, linking geographic and socio-economic data to service distribution.

EDUCATION

University of Leicester   Leicester, UK

MSc Satellite Data Science (Distinction)   *Sept 2023 - Oct 2024*
- **Relevant modules:** GIS, Remote Sensing, Geospatial Data Analytics, Satellite Data Analysis
- **Award:** Ranked in the top 3 of the graduating cohort for academic performance and research excellence.

University of Mkar   Benue, Nigeria

BSc Computer Science (1st Class Hons)   *Sept 2017 - Oct 2021*
- **Relevant modules:** Data Structures, Algorithms, Database Management and Design
- **Dissertation**: *University Staff Leave Management System*
  - Developed a comprehensive leave management system for university staff, incorporating SQL for database management and HTML and CSS for the application interface. The system streamlined leave tracking and reporting, reducing administrative workload and improving process efficiency.

AWARD & ACHIEVEMENT

Commonwealth Shared Scholarship   **Sept 2023 – Sept 2024**
- Awarded the prestigious Commonwealth Shared Scholarship valued at approximately £40,000 to pursue an MSc in Satellite Data Science at the University of Leicester. Selected from a competitive pool of candidates across 54 Commonwealth countries for exceptional academic achievement and potential to contribute to global challenges.

Best Graduating Student   **Sept 2017 - Oct 2021**

University of Mkar, Department of Mathematics and Computer Science

- Recognised as a top-performing student, demonstrating academic excellence and leadership throughout undergraduate studies.

VOLUNTEERING EXPERIENCE

Leicester City Council   **May 2024 – Present**

Environmental Volunteer

- Conducted litter-picking individually and in volunteer teams, improving cleanliness in parks and public spaces.