ENIOLA BABATUNDE (CGEOG(GIS))

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Portfolio : https://eniolababatunde.co.uk/

PROFESSIONAL SUMMARY

Eniola is a Chartered Senior GIS consultant, with over 6 years' experience in spatial analysis, spatial data science and GIS development. Eniola has demonstrated a high degree of versatility and adaptability through stellar performance in multiple industries including historical studies, transportation, environmental planning, and offshore renewables. Within Mott MacDonald she has been supporting the delivery of web tools and app for the Leeds National Flood Mapping, she is committed to developing solutions in that convey complex information in innovative and engaging ways , promoting cross sector collaboration, and providing value to stakeholders.

SKILLS AND TOOLS

- **Esri Suite**: Online, Pro, Story maps, Insights, Experience Builder, Survey123, Collector
- **Programming Languages**: Python, ArcPy, SQL, Javascript, HTML, CSS, Leaflet
- **Data Analysis**: R, R Studio, Jupyter NoteBooks
- **Database Management**: Oracle, OracleSpatial, PostgreSQL, PostGIS
- **DevOps Tools**: Github, Azure Repos
- **Business Intelligence and Visualization Tools**: Tableau, Insights for ArcGIS, Power BI
- **Project Management**: MS Office, Microsoft Sharepoint

CORE COMPETENCIES

Project Management
- Microsoft SharePoint, Git

Data Visualization and Web Mapping
- Power BI, Insights for ArcGIS, Leaflet

Collaboration and Communication
- Teamwork, Presentation

Automation
- R, Python, Geoprocessing toolbox

PROFESSIONAL EXPERIENCE

Senior GIS Consultant   **May 2023 - Present**
Mott MacDonald Group
- GIS Development – using python scripting with APIs to automate back of features services in the cloud, automating processes to carryout environmental constraints analysis and summary across different construction options.
- GIS Lead for the Leeds Flood Alleviation Scheme -automating workflows using Power Automate and the ArcGIS API for python.
- Bat suitability modelling and identifying bat survey locations using R.
- Development of Power BI Dashboards to track team resource and availability.

GIS Consultant   **Sept 2021 – May 2023**
Mott MacDonald Group
Leeds Flood Alleviation Scheme Phase 2 Natural Flood Management, Leeds City Council (2021-ongoing)
Leeds Flood Alleviation Scheme Phase 2 aims to develop a catchment wide approach to reducing flood risk in Leeds. The initial works aim to prioritise sub-catchments for implementation of NFM measures through both environmental and hydrological assessment. Roles include:

- GIS support and mapping, data acquisition, management, and analysis for the technical team, and helping to coordinate and implement data standards. ArcGIS Online is used extensively for this project through a series of web apps, story maps, and dashboards.
- Use of python to create functions to add/edit and update records to the cloud.
- Azure Repos for code versioning and control.
- Use of Power Automates to create webhooks to trigger sites through multiple stages.
- Development of Arcade expressions to link multiple feature services within a dashboard.

Spatial Data Scientist   - Temporary   **April 2020 – May 2021**
HS2 Ltd

- Driving digital innovation; produced and developed several R shiny apps for the HS2 Ecology Data Delivery Team for data manipulation and integrity.

- Managing a team of R developers, led and coordinated team for code version control.

- Producing SQL queries to fetch data via an API.

- Developing spatial techniques and queries in R (including Leaflet for R).

- Developing R markdown documents for reporting.

Digital Delivery GIS Consultant - Contract   **Sep 2019 – March 2020**
ScottishPower Ltd

- Developed high quality digital apps for the offshore renewables team, including dashboards, web apps and story maps.

- Produced geoprocessing toolboxes using python to automate workflows.

- Provided innovative solutions, enabling better understanding of offshore data, tracking of ships and archaeological data.

- Developed a tool that converts ship historical vessel location via an API to lines which pushes them back to ArcGIS Online and are automatically visualized on a web map, thus enabling real time ship track understanding.

Graduate GIS Consultant - Permanent   **Jan 2019 – Sep 2021**
AECOM

- Produced several maps with a standardised approach of professional map production using data driven pages, SQL queries and doughnut like maps to effectively visualize over 30 constraints on the maps produced.
- Facilitated database connections into R to carryout spatial analysis.
- Produced high quality cartographic outputs with GIS and spatial analysis to help different stakeholders make informed decisions for the A303 Stonehenge project.
- Automated tasks by creating python scripts to read many map documents and geodatabases.
- Mapping potential corridor routes and environmental constraints to inform the routeing of onshore underground cables which would be required as part of the development of a new interconnector, between the UK and mainland Europe.
- Provided geospatial solutions for the development of a feasibility study associated with the Small-Scale LNG Supply in Mauritania by Shell International Exploration & Production B.V. (Shell) to the power plant of Nouakchott.
- Provided cartographic output for water receptors on the A40 STP2 Project to assess the impact on the water environment of a new P&R site.
- Provided GIS support for a range of projects through ecological mapping, particularly, Phase 1 Habitat Survey mapping, denoting site boundaries for sites around the UK.

GIS Analyst   **Dec 2016 – Sep 2017**
Interspatial Technologies

- Managed various spatial data and information systems in line with internal policies, procedures, and best practice and ensuring databases are always up to date

- Prepared detailed modelling and mapping of river catchments, flood hazard and flood risk maps using various GIS and modelling systems including 3D LiDAR Dem visualisation, ArcGIS and ArcScene.

- Employed various analytical and modelling techniques in the Hydrological Engineering Centre including River Analysis System (HEC-RAS) and Hydrologic Modelling System (HEC-HMS) for flood risk mapping.

GIS Intern   **Jul 2015 – Dec 2015**
Interspatial Technologies

- Produced high quality maps for environmental impact assessment.

- Digitization of maps and creation of land parcel survey plans using ArcGIS and AutoCAD respectively.

- Data exporting, responsible for converting Garmin GPS field data to feature class as well as exporting spatial data from ArcPad to ArcMap as and when required.
- Prepared detailed modelling and mapping of river catchments, flood hazard and flood risk maps using various GIS and modelling systems including 3D LiDAR Dem visualisation, ArcGIS and ArcScene.
- Employed various analytical and modelling techniques in the Hydrological Engineering Centre including River Analysis System (HEC-RAS) and Hydrologic Modelling System (HEC-HMS) for flood risk mapping.

EDUCATION

- **MSc. Geographical Information Science 2018,** *University of Edinburgh, UK*
- **BSc. Surveying and Geoinformatics 2016,** First Class**,** *University of Lagos*