**OLUWATOBI AIYELOKUN**

**GEOSPATIAL INTELLIGENCE ANALYST**

**(234) 8169662087, (234) 8175265176 – aiyelokuntobi@gmail.com**

A geospatial intelligence analyst with more than eight years’ experience in the application of GIS, remote sensing and computational modeling techniques for optimizing decision-making and operations. Industries served include consulting, water resources, public health, environmental engineering, waste management, civil engineering and government.

# Experience

|  |  |
| --- | --- |
| OEA  CONSULTS  08/19 – Present | LEAD, GEOSPATIAL INTELLIGENCE ANALYST  Responsible for the derivation of insights from geospatial data by coupling geoprocessing, image analysis, and machine learning techniques; Development of web maps, web GIS environment, enterprise GIS and other mobile or web based geospatial applications for environmental and water resources management; Responsible for building physical based distributed models, computer intelligence models and hydrodynamic models. |
| OLIVEARC SOLUTIONS  11/18 – 07/19 | GEOSPATIAL INTELLIGENCE CONSULTANT  Responsible for general consultations in GIS, hydrologic modeling, hydraulics modeling, groundwater modeling, machine learning modeling, and data analytics; Responsible for optimization of strategies for collecting, analyzing and interpreting data for strategic planning and management; Development, maintenance and implementation of Geo-database. |
| VISIONSCAPE SANTATION SOLUTIONS  06/17 – 11/18 | GIS ANALYST/PROJECT PLANNING EXECUTIVE  Built GIS databases for waste management projects for Lagos, Abuja, Accra, Mombasa and Seychelles; Participated in surveys and baselines studies for project planning; Lead waste characterization studies at national and international level; Planned and mapped waste collection routes; Engaged in technical and oral presentation of geographic information for decision making in waste management projects. |
| HERMTECH RESEARCH AND CONSULTANCY  12/12 – 06/17 | HYDROLOGIST/GIS EXPERT  Employed spatial-statistical analysis of design storms for regional flood management; Mapped flood hazard and groundwater prospect zones using GIS and Multi Criteria Analysis (MCA); Designed Water Supply Systems for a rural community; Conducted compliance evaluation of effluent discharge of a dairy industry and designed more efficient effluent treatment plant; Developed stochastic models for operation of hydraulic structures for flood control; Estimated groundwater recharge using multiple methods at river basin level. |
| OYO STATE WATER CORPORATION  11/11 – 11/12 | HYDROLOGIST  Monitored Oyo State’s water supply process at Asejire Waterworks; Active engagement in the operation of water treatment plant; Monitored water level of Asejire Dam for flood control; Engaged in hydrological investigation of River Oshun. |

# EDUCATION

|  |  |
| --- | --- |
| UNIVERSITY OF IBADAN  2018 – Present | **DOCTOR OF PHILOSOPHY (PHD) IN CIVIL ENGINEERING (IN VIEW)**  Specialization: Water Resources and Environmental Engineering |
| UNIVERSITY OF IBADAN  2015 – 2017 | **MASTER OF SCIENCE (MSC) IN CIVIL ENGINEERING**  Specialization: Public Health and Environmental Engineering  Grade: PhD Grade |
| **FEDERAL UNIVERSITY OF AGRICULTURE ABEOKUTA** | **BACHELOR OF WATER RESOURCES MANAGEMENT(B.WRM)**  Specialization: Hydrology  Grade: Second Class Upper |

# SKILLS

a) GIS Software: ArcGIS Desktop, ArcGIS Online, ArcGIS Pro, QGIS, Global Mapper.

b) GIS Extensions: Network Analyst, Spatial Analyst, 3D Analyst, Image Classification, etc.

c) GIS geo-processing tools: Buffer, Clip, Marge, Dissolve, Intersect, Union, etc.

d) Database Management System: PostgreSQL, Microsoft Access, MySQL

e) Programming Language: R, Matlab, Python, Leaflet, Arcpy

f) Hydraulic Software: EPANET

g) Hydrologic Software: HEC HMS, HEC GEOHMS, ARC HYDRO, R, SWAT

h) Data Analytics: Matlab, WEKA, R, Python, Power BI and Tableau

i) System Dynamics Simulator: VENSIM PLE

j) Groundwater Modelling Code: MODFLOW, MODFLOW USG

k) Groundwater Modelling GUI: ModelMuse, Visual MODFLOW

l) Others: SPSS, Microsoft Office (Microsoft Excel, Microsoft Word and Microsoft PowerPoint)

m) Web Application Development: HTML, CSS, Bootstrap and JavaScript

# MEMBERSHIP OF LEARNED SOCIETIES

a) Nigerian Institute of Water Engineers (NIWE);

b) African Association of Remote Sensing of the Environment (AARSE);

c) International Association of Engineers (IAENG);

d) International Society for Environmental Information Sciences (ISEIS);

e) Environmental Health Scientists Association, Nigeria (EHSAN).