

EMMANUEL JOLAIYA AYODELE

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GIS Developer with solid foundation and lots of experience working with spatial & non-spatial data using various tools, technologies and frameworks. Currently, I work as a remote consultant to Integration Consulting Group, a Germany based firm, where my role varies from validation of remotely mapped and surveyed settlements, review and development of project documentation and manuals, providing technical support to mappers and training of field workers to be a better mapper.

Highlight of Strengths

|| Time management(9/10) || Fast learning and self-development (8/10) || Adaptability to working environment(8/10) || Training and development(8/10) || Critical thinking(8/10) || Community Management,Capacity Building and Mentorship/Leadership(8/10) || Effective management and team collaboration(8/10) || Geospatial Analytic(9/10) || Geospatial Research(8/10) || Geospatial Development & Programming(8/10) || Education

Career Experience

Mapping and Technical Support Specialist Consultant (Remote)

Integration Consulting Group,Germany||Nov. 2019-Present

At Integration Consulting, I help with the mapping and validation of remotely mapped settlements and providing technical support to remote mappers in the framework of the GIZ Nigerian Energy Support Programme (NESP) II- Supporting the development of a sustainable approach towards data gathering and management for the purpose of electrification planning and monitoring in Nigeria as well as "Nigerian Energy Support Programme (NESP) II- Supporting Nigeria's Strategy to Promote investments in the Mini-Grid Sector."

Key Achievements:

[1] Successfully mapped and validated over 3500 tasks, this has further support the vision of humanitarian mapping by putting thousands of communities on the map. [2] Helped in training over 15 field workers on mapping with HOT Tasking Manager, JOSM & OSM. [3] Provide technical supports for remote mappers and beginner mappers. [4] Helped with the facilitation of several remote mapping mapathons. I take training sessions during these mapathon.

Junior GIS Developer(Remote)

Cizoti Nigeria Limited & The World Bank Group || June-August,2020.

Project: Ibadan Urban Flood Management Project(IUFMP)

Key Achievements:

[1] Used several open source tools and libraries to carry out all my assigned tasks. Some of them were QGIS,PostgreSQL & PostGIS, Geoserver, Leaflet,Openlayers, Mapbox,ogr2ogr among many others. [2] Worked with ogr2ogr command line scripts to batch convert spatial layers from one format to another for storage in PostgreSQL & PostGIS database automatically.[3] Explored connecting QGIS to the spatial database to retrieve layers for cartographic styling and exporting the styles in .SLD format for use in Geoserver.[4]Developed front end applications with Leaflet.JS and Openlayers to make HTTP request to Geoserver using WFS,WCS and WMS OGC protocols, to serve the styled geospatial layers. Overall, this experience gave me an understanding of implementing a full stack web GIS using open source geospatial tools.

GIS Developer(Remote)

Omo Oye Integrated Data Services Limited(omooye.com) || June,2020 -Present

My tasks run the gamut from developing Front End applications to deploying Web GIS projects.

Key Achievements:

[1] Deployed a full-fledged Enterprise GIS using open source tools and technologies. [2] Deployed a WebGIS project using FOSS4G stacks(QGIS,Geoserver,PostGIS,Leaflet,Apache Tomcat, ngrok etc).

Quality Assurance Personnel (Remote)

Road-Preppers Technologies Limited (lara.ng)|| August- November, 2019

My primary duty was to review the accuracy of data collected by field agents. Build an accurate road/trip fare that will be used in the organization system and ensure all data and information are correct and accurate.

Key Achievements:

|1| Used the best tools and practices to ensure all data are well reviewed and accurately labeled. |2| Supported my remote mapping with an on-site survey to improve accuracy and clear doubts.

Geospatial Data Analyst Intern

Omo-Oye Integrated Data Service Limited(omooye.com), Nigeria|| July -December,2019.

I had my Internship at the start-up where I was able to polish my hard skills and learned new soft skills.

Key Achievements:

|1| Deployed an enterprise GIS using free and open source software.| 2| Designed and built an interactive data portal web app using HTML5&CSS3, JavaScript, PHP and MySQL. |3| Facilitated a GIS Day celebration by collaborating with the State Government to introduced participants to Geographic Information Systems. We recorded over 100 participants from all over the country including government officials,some of which have shared wonderful testimonies on how helpful the program was to their career.

Leadership Experience

PRESIDENT

Federal University of Technology, Akure, Nigeria.Association of Remote sensing and GIS students, FUTA Chapter. (ARSGISS_FUTA) | (August, 2018- August , 2019)

The presidential system at ARSIGSS FUTA is part of the overall programme that develops my leadership and responsibility skills. With the expectation to establish and maintain the highest standards of behavior, attitude and appearance at all times and provide a positive role model for other students.

Key Achievements:

|1| With the work load of leading a total of 600 students, I am still able to attain the best result in my department and also my faculty. |2| I was able to equip the association students with programming skills by collaborating with Developers Student Community FUTA. |3| I was able to collaborate with YouthMappers FUTA and Farmsense to equip the associations' students with OpenStreetsMap(OSM) for disaster response and community development. |4| I launched a story map contest with the purpose of developing the interest of association students with online and web based GIS software platforms to meet up with the ever-dynamic world. Workshops and presentations was organized for students to present their maps and a price was given to the best presentation as a form of encouragement. |5| I was able to achieve all this with the support of my fellow executives, fellow students, staff adviser, Head of Department and also with the support from collaborators.

Additional Leadership Experience

|1| President, YouthMappers FUTA| (October 2019-Present) |2| Deputy Community Lead , Data Science Nigeria, Akure Chapter(AI+ Akure)| November 2019 - Present. |3| Welfare Director, Association of Remote Sensing and GIS Students (ARSGISS) FUTA Chapter|(2017- 2018) |4| Treasurer,Nigerian Association Of Petroleum Explorationist, FUTA Chapter(NAPE/AAPG)| (2018-2019) |5| Federal Science and Technical College, Usi-Ekiti, Nigeria. Class Captain(2013-2015)||Jet Club President(2014-2015)

Volunteer Experience

Mapping Mentor

Crowd2Map Tanzania || June,2020 - Present

Crowd2Map Tanzania is a crowd-sourcing initiative aimed at creating a comprehensive map of rural Tanzania, including its villages, roads, and public resources (such as schools, shops, offices, etc.) in OpenStreetMap, using a combination of remote mapping from satellite images, together with local mapping using Maps.Me, a free smartphone app.

Key roles:

[1] Review tasks mapped by new mappers and provide constructive feedback. [2] Validate tasks mapped by new mappers, geared towards ensuring high-quality data are used for the project.

Open Source Software Contributor, GitHub || March, 2020-present

Contributed to some open source software on GitHub as a means of giving back to the community and improving my programming skills.

Humanitarian OpenStreetMaps Contributor || 2017-Present

Humanitarian OpenStreetMap Team is an international team dedicated to humanitarian action and community development through open mapping. We work together to provide map data which revolutionizes disaster management, reduces risks, and contributes to achievement of the Sustainable Development Goals.

Projects and Researches

[1] FUTA Progressive Web App Navigation Guide Development ([Completed](#)) [2] Wetlands change detection and dynamics using Google Earth Engine Python package--geemap (on-going) [3] An Improved Methodology for Locating and Ranking Public Landfill Sites at a Regional Scale (On going) [4] Ibadan Urban Flood Management Project (Phase 1 completed) [5] Twitter bot for the GIS community (completed) | [GitHub](#) [6] Python Package for easy to advanced GIS analysis (Constantly improving) | [GitHub](#)

Education and Credentials

B.TECH (FIRST CLASS IN VIEW) | 2020 | FEDERAL UNIVERSITY OF TECHNOLOGY

AKURE, ONDO-STATE, NIGERIA.

Discipline: **REMOTE SENSING AND GIS**

Related coursework: Global Positioning Systems, Field data Gathering, data analysis, Image Interpretation, Photogrammetry, Digital Image Processing, Cartography, Satellite Remote Sensing, Sensors, Hydrology, Land Use & Resources, Forest Ecology and Soils, Urban Design Theory, Image Processing Systems, Remote sensing Application in Geomorphology, Application of Remote Sensing in Urban and Regional Planning, Geographic Information Systems, GIS Programming.

WASSCE, NECO, NABTEB, CISCO | 2015 | FEDERAL SCIENCE AND TECHNICAL COLLEGE, USI-EKITI, EKITI STATE, NIGERIA.

Scholarship, Grants and Award

[1] 2020 YouthMappers Research Fellow, USA (on going) [2] NAPE/UAP Grants-in-aid award recipient (2019) [3] Recipient of the Nigeria Federal Government Scholarship Award (2017-present) [4] Recipient of The FUTA Alumni Association, Nigeria Liquefied Natural Gas (NLNG) Chapter. [5] Scholarship to deserving 300 level student in the seven schools of the university. (2018) [6] Recipient of Ekiti-State Scholarship Award (2018) [7] Award of Excellence as the most brilliant student in the School of Earth and Mineral Sciences/ Remote sensing and GIS Department. (2017) [8] Award of Excellence as the Best Student in NABTEB External Examination, FSTC Usi-Ekiti (2015) [9] Data science/AI Boot camp, cohort 8 at covens works, Premier Hub, Akure, Ondo-State, fully funded. (completed).

Technical Skills

GIS: ARCGIS (Desktop, Online), Quantum GIS etc || **Remote Sensing software :** ERDAS Imagine, GeoDa ILWIS, ENVI, Google Earth Engine, geemap library etc || **Other GIS & RS tools:** Smart GIS, Google Earth Pro, Openstreetmap, PCI Geomatica, Cmapit Studio, GPS, Stereoscope, spectroradiometer, Universal Map Downloader etc. || **Data Management:** PostgreSQL, PostGIS AND GeoServer. || **WEB GIS Clients:** OpenLayers, Leaflet, Mapbox GL, Turf JS etc || **Data Collection:** Kobocollect, ODK Collect, OpenMapkits. || **Humanitarian Contributions:** OSM ID Editor & JOSM, Map swipe, RapID. || **Programming:** Python(9/10), Javascript (8/10), React JS(7/10), Node JS(5/10), Django(5/10), SQL(5/10), HTML&CSS(8/10). Intermediate user of Microsoft Office/Google (Word, Excel, PowerPoint, Access) || **Communication :** Documentation & Report Writing Skills

REFEREES

Available upon Request.