

Jeremiah O.Okoro

Geospatial Software Developer

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Summary

GIS Professional with experience in GIS and webGIS development. Proficient in back-end technologies, Geographic Information Science technologies, data analysis techniques, and data visualization tools. Possesses a solid understanding of software development principles, practices, and methodologies, excellent communication, collaboration, and problem-solving skills, and a passion for learning and adapting to new technologies.

Tech Stack | Skills | Tools

Java | Python | JavaScript

ArcGIS Pro | ArcGIS Desktop | ArcGIS Online

Spring Boot | Django

QGIS

HTML | CSS | Angular | React

Cartography

MySQL | PostgreSQL | PostGIS | MongoDB

Spatial Analysis

OpenLayers

Jupyter Notebook | MATLAB

Docker | Jenkins

GeoDjango

AWS

Geopandas

Jira

Restful API

Linux

Communication/Presentation

Work Experience

Freelancing

2023-08 - Present

GIS Analyst/GIS Developer

- Developed an enterprise GIS portal using PostgreSQL PostGIS, OpenLayers, and Geoserver
 - Time series analysis on energy consumption using Python and Geopandas.
 - Developed choropleth map in webGIS application using leaflet
 - Developed Spatial query functionalities (buffer, intersecting and within analysis) in web mapping application
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- Created maps (static and dynamic) to meet various business needs.

Revo Energy Africa

2023-04 - 2023-08

Software Engineer (Intern)

- Identified and resolved software bugs through systematic debugging, ensuring the stability and functionality of the codebase.
- Introduced and put into use continuous integration tools like Jenkins and automated testing frameworks like JUnit and Mockito to ensure thorough test coverage and quick delivery, significantly improving code maintainability and allowing future improvements.
- Actively participate in code reviews, applying best practices to enhance code quality, reduce technical debt, and improve overall code maintainability.
- Collaborate with other engineers to implement technical designs and requirements and ensure software adheres to the company's high-level technical standards..
- Developed back-end Restful APIs (Java /Spring boot)

Semicolon Africa

2022-04 - 2 0 2 3 -04

Software Engineer (Apprenticeship)

- Supported Software Development Life Cycle (SDLC), implementing Agile (scrum) methodologies.
- Collaborated with six Engineers to develop and maintain several scalable, secured, and high-performance apps, notably an E-wallet app used for transacting digital currencies.
- Assisted in building REST APIs for data and resource interchange among different units and departments in the company. Improved and worked on the existing company’s codebases.
- Participated in code reviews.
- Documented and maintained software functionalities.

Enugu Electricity Distribution Company Plc.

2019 -07 - 2022-04

GIS Analyst

- Developed and maintained comprehensive data dashboards using Google Sheets, data visualization tools, and maps, facilitating the presentation of key metrics related to workforce performance, customer satisfaction, and operational efficiency to stakeholders
- Employed spatial analysis techniques to analyze demographic data and consumer behavior patterns, enabling the identification of trends and opportunities for targeted marketing and service delivery strategies
- Utilized spatial ETL tools to process and integrate demographic, socioeconomic, and geographic data for data-driven decision-making and scalable solutions within the electricity distribution coverage area.
- Collaborated with cross-functional teams to streamline workflow processes and automate repetitive tasks using Google Apps Script, resulting in a 20% reduction in manual data entry errors and a 30% increase in team productivity..
- Implemented a spatial database system to centralize and manage data related to electricity assets, customer demographics, and service areas, facilitating efficient data retrieval and analysis for informed decision-making. Utilized real-time GIS Cloud applications to map electricity networks and consumer demographics at feeder and distribution levels, enabling the visualization of operational coverage and service areas for strategic planning and resource allocation.

Education

Semicolon Africa, Edtech, Yaba, Lagos, Nigeria

2022-04 - 2 0 2 3 -08

Diploma

Software Engineering

Federal Polytechnic Nekede, Owerri, Nigeria

2011-010 - 2017-10

BSc. (WES Evaluated)

Surveying and Geo-informatics

Certifications

- **ESRI MOOC:** Going Places With Spatial Analysis
- **University of Michigan** (Coursera): Intermediate PostgreSQL
- **University of Reading** (Henley Business School): Business Management and Entrepreneurship
- **University of Michigan** (Coursera): Database Design and Basic SQL in PostgreSQL
- **IBM** (Coursera): Data Science Methodology

- **IBM** (Coursera): Python for Data Science and AI
- **IBM** (Coursera): Database and SQL for Data Science
- **University of Toronto** (Coursera): GIS, Mapping and Spatial Analysis
- **ESRI**: Spatial Data Science: The New Frontier in Analytics

Projects

- EEDC Locational Intelligence Application (Kpando) 2021-10 - 2022-04
The EEDC Locational Intelligence Application (Kpando) is a groundbreaking project aimed at enhancing operational efficiency and service delivery for the Enugu Electricity Distribution Company (EEDC). As a proud member of the development team, I contributed to the creation of this innovative application designed to provide real-time locational insights and analytics for optimizing electricity distribution networks in the southeastern region. Leveraging advanced GIS technologies and data analytics, our team collaborated to develop a user-friendly platform that empowers EEDC stakeholders with valuable spatial intelligence to streamline operations, improve maintenance planning, and enhance customer service. The Application represents a significant step forward in harnessing technology to drive positive change and efficiency in the power distribution sector.
- Time Series Analysis on Energy Consumption 2021-04 - 2021-05
Using advanced analytical techniques, I analyzed historical energy data to identify trends and predict future consumption patterns. The insights generated from this analysis enabled informed decision-making, optimization of resource allocation, and improved energy management strategies.
- GIS Enabled Customer Enumeration and Asset Registration Project 2019-08 - 2022-04
Contributed to the successful execution of the GIS-enabled Customer Enumeration and Asset Registration Project at EEDC, a prominent initiative mandated by the National Electricity Regulatory Council (NERC).
Leveraged advanced GIS technology to ensure precise customer indexing and asset tracking, reducing losses attributed to asset mismanagement.

Languages

Igbo	English
Full proficiency	Full proficiency