

# DENNIS IRORERE

Mobile: +2348149835443 | E-mail: [denironyx@gmail.com](mailto:denironyx@gmail.com)

Website: <http://dennisirorere.com/>

Akure, Ondo, Nigeria

## Professional Profile

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Data Scientist with over 2 years' experience facilitating the use of data and technology in core business strategy to drive innovation for high growth businesses. Skilled in data management/analytics, location intelligence, data visualization, Geographic Information System / Science, and programming, intellectually curious, resulted oriented and intuitively data driven

## Core Competencies

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- Data Management & Analytics
- Dashboard & Reporting
- Geographic Information Systems & Science
- Capacity Building and Training

## Working Experience

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Predictive Insight, Stellenbosch, South Africa

December 2019 – Present

Data Scientist

- Developed end-to-end data analysis process, which included handling transactional and spatial data, analyzing using R and visualizing using Shiny and Leaflet.
- Improved the geospatial capacity and ability for Predictive Insight to work on more complex and advanced geospatial analysis using vectorized data. Such capacity includes, logistics planning, shortest distance, visualization of client distributions and location intelligence.
- Developed and managed an open source spatial data infrastructure. This was created using PostgreSQL database, with the extension POSTGIS to enable geospatial data functionality, and the HSTORE extension, for storing key value pairs in a single value.

Integration Environment & Energy GmbH, Gräfenberg, Germany

November 2019 – Present

Remote mapping assignment (November 2019 – June 2020)

- Improved the remote mapping workflow and consistently contributed to the improvement of the mapping process of settlement.
- Ensured all settlement mapped compliance to the data standard of the company's and of OpenStreetMap data policy. Which required me to conduct high quality validation checks for all remotely mapped settlements.

Geodata specialist and Operation Manager (July – Present)

- Managed the Nigeria Sustainable Energy for All (se4all) database which comprises of store settlement and energy datasets using SSIS integration on POSTGRESQL written in SQL.
- Provided technical expertise for the management of settlement, field, and electricity distribution data on Data Manage (GeoNode). The expertise includes management of data layers on the platform, generation of automated maps, metadata update and user's management.
- Performed GIS data assessment and processing

E health System Africa, Kano, Nigeria

August 2019 – February 2020

GIS Analyst (Intern)

- Provided support to the collection of demographic data, analysis and modelling the population of Northern Nigeria using satellite imageries and geospatial analysis techniques

- Supported the development of metadata for geo-referenced infrastructure and demographic data for development programme. A part of a global initiative which aims to improve access to data for decision making.
- Applied the graphhopper direction route planning API to estimate delivery time and distance for vaccination delivery time tracking and planning.

## Volunteer Experience

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- Africa R – A member of the core team, February 2019 – Present
- OpenStreetMap (OSM) Project - Advanced Validator and Data Manager, December 2016 - Present

## Education

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- Federal University of Technology, Akure, Nigeria – B.Tech. Meteorology December 2019

## Scholarships, Awards and Accomplishment

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- Organized the 2020 Open Source Community Africa Festival in Lagos.
- Teaching Assistant (TA) for the *Modern Geospatial Data Analysis* at the RStudio::Conf 2020.
- Awarded the *State of the Map US Scholarship* of \$500 travel cost, conference registration, and 3 nights' accommodation paid to attend the State of the Map US, Minneapolis, USA in September 2019.
- Facebook's MapWithAI team featured my contributions and early testing of the rapid tools in their article.
- Awarded the 2018 YouthMappers Research Fellowship a grant worth \$8000 and round trip to USA.
- Recipient of 2018 Rstudio::Conf Diversity Scholarship worth \$3000
- Awarded YouthMappers Data scholar grant of \$500

## Conferences and Symposium

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- Open Source Community Africa Festival, Lagos, Nigeria February 2020
- RStudio::Conf 2020, San Francisco, USA January 2020
- State of the Map US, Minneapolis, USA September 2019
- Demystifying Data Science (3<sup>rd</sup> Edition), online conference July 2019
- Research Methodology Symposia, DC and Virginia, USA June 2018
- RStudio::Conf 2018, San Diego, USA February 2018
- Africa Open Data Conference, Accra, Ghana July 2017

## Selected Training and Certifications

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- Eindhoven University – Process Mining: Data Science in Action, September 2020
- University of California, Davis – SQL for Data Science, December 2019
- University of Colorado – Data and Analytics for Business & Database Management Essentials, April 2019
- Yonsei University - Spatial Data Science and Application, November 2018
- Rstudio::Conf – Big Data in R, February 2018

## Technical Skills

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- GIS: OSM (JOSM), QGIS, ArcGIS Desktop, Carto, Mapbox, BigQuery GIS
- Programming languages: SQL, R, Python, JavaScript, GraphQL, Bash
- Programming libraries and framework: Shiny, Django, Leaflet, Pandas, ETL
- Databases: PostgreSQL, MySQL, MongoDB, BigQuery
- Business Intelligence: Tableau, MS Excel