

# KENEILWE RANGWAGA

Data Analyst | Full Stack Developer | DataVisualization | Python & SQL Expertise

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## Summary

Motivated and detail-oriented full-stack developer and data science enthusiast with a Diploma in Animal Sciences and a Certificate in Data Science. Recently completed a full-stack leadership internship at Shaper, gaining hands-on experience in building robust end-to-end applications using modern frameworks. Skilled in Java, Angular, Python, SQL, and data visualization, with a strong foundation in both front-end and back-end development, data analysis, and machine learning. Experienced in developing agricultural resource tracking platforms and analyzing complex datasets to uncover insights that drive impactful decisions. A collaborative problem solver passionate about innovation, continuous learning, and creating real-world, data-driven solutions.

## Experience

### Sand Technologies

#### Data Science Intern

- Gained hands-on experience in developing end-to-end applications, from front-end interfaces to back-end services.
- Built and optimized features using Angular, Java, Spring Boot, and SQL, improving application performance and reliability.
- Collaborated with cross-functional teams to design, implement and deploy solutions that enhanced user experience and streamlined workflows.
- Contributed to real-world projects, ensuring code quality, scalability, and maintainability in a production environment.

### Sand Technologies

Remote

#### Data Science Intern

09/2024 - 12/2024

- Conducted data preprocessing and exploratory data analysis.
- Assisted in developing predictive models to support business insights.
- Optimized data pipelines for efficient processing.
- Created visualizations to present key findings.
- Collaborated with data scientists, business analysts, and data engineers.
- Contributed to data-driven decision-making and strategy development.

### ExploreAl Academy Remote

Remote

#### Data Science Intern

01/2024 - 12/2024

- Collaborated on diverse data science projects.
- Gained hands-on experience in Python, SQL, and data visualization.
- Developed predictive dashboards for environmental data insights.

### Adidas hillfox Fo

Hillfox value center

#### Salesperson

11/2022 - 01/2023

- Increased customer satisfaction by leading a team to deliver customized products.
- Actively participated in company operations.

### MakheforaMatsarene Investment Group Pty (Ltd)

South Africa

#### Oversaw poultry house operations

02/2021 - 02/2022

- Operated 3 poultry house operations
- Implemented data management systems using Excel
- Ensured product quality and efficiency in daily operations

## Education

### ExploreAl(Sands)

Remote

#### Certificate in Data Science

01/2024 - 12/2024

- Academy, Remote |
- 2024 | Focused on Python, SQL, and data visualization
- Unsupervised/Machine learning and Classification

### Tshwane University of Technology

South Africa | FEB

#### Diploma in Animal Sciences

02/2019 - 02/2022

### Kgola ka leleme High School

South Africa

#### Matriculate

01/2018 - 12/2018

## Training / Courses

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Certificate in AWS Cloud Practitioner — AWS Training and Certification

Certificate in Data Science — ExploreAI Academy

## Languages

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English   Advanced   ●●●●●

## Skills

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Data Science · Data Analysis · Data Visualization · GitHub · Google Sheets · HTML · Hypothesis Testing · Machine Learning · Microsoft Excel · NLP · NumPy · Pandas · Power BI · Python · Scikit-learn · Seaborn · SQL · GeoSpatial Visualization · AWS Cloud Computing · App Development

## Projects

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### Maji Ndongo Water Crisis

- Description: Series project on Maji Ndongo's water crisis, divided into three parts: data exploration, generating insights, and visualising findings.
- Key Contributions: Explored data with SQL, generated ERD, integrated audit reports, built complex queries, summarised insights, created visualizations with Power BI.
- Skills: SQL, data aggregation, data visualization, MySQL, Power BI, Jupyter Notebook.
- Outcomes: Provided actionable insights, visualised crisis impacts, and communicated findings transparently.

### Vegetable Price Analysis Project

- Description: Analysed vegetable prices for 2023-2024 to uncover trends and influencing factors.
- Key Contributions: Project manager, Set up the coding environment, conducted EDA, data cleaning, evaluation, and hypothesis testing.
- Skills: Python, EDA, data visualization, hypothesis testing, GitBash, GitHub.
- Outcomes: Delivered insights for stakeholders, enhanced understanding of price dynamics.

### Classification Model Project

- Description: Assisted in developing and deploying a classification model using Python and Streamlit to enhance the organisation and accessibility of news articles.
- Key Contributions: Performed EDA, trained and evaluated models, deployed the best model as a web application.
- Skills: Python, EDA, NLP, machine learning, Streamlit.
- Outcomes: Improved content organisation and user experience.

### Recommender Systems Project Anime Oracle App

- Description: Developed an anime recommendation app using unsupervised machine learning techniques to provide personalised anime suggestions to users.
- Key Contributions: Organised and led team meetings to ensure smooth project progress, Managed data preprocessing and ensured data quality for accurate analysis.
- Skills: Python, EDA, data cleaning, model development, App development, team leadership, project management, GitBash, GitHub.
- Outcomes: Successfully developed and deployed the Anime Oracle app, providing valuable recommendations to anime enthusiasts and delivering insights for stakeholders.

### River Health Project @ Sand Technologies

- Description: Collaborative project focused on river health monitoring through cloud-based data storage and geospatial mapping.
- Key Contributions: Connected to AWS S3 bucket for data storage, Data Analysis, and analysed water quality data to produce actionable insights.
- Skills: Cloud computing (AWS S3), API integration, data analysis, geospatial visualization.
- Outcomes: Successfully deployed an app that visualises high-risk discharge points. The app displays pollutant levels in affected areas, it provides valuable predictions on future pollutant discharge rates. Stakeholders can use these insights to make informed decisions for environmental management.

### UniNestGo Web App

- Description: UniNestGo is a student accommodation platform designed to simplify the housing search and booking process.
- Key Contributions: Collaborated with a cross-functional team to develop a responsive, user-friendly app and implemented key features that enhanced platform functionality and usability.
- Skills: Full-stack development, Angular, Spring Boot, Posgresql, Git and Github, User interface (UI) design, Database management and Team collaboration.
- Outcomes: Delivered a functional, intuitive app that improved the user experience for students searching for accommodation.

## Projects

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### AgriTrek

- Description: AgriTrek is an agricultural resource tracking platform aimed at helping farmers and organizations monitor and manage resources efficiently.
- Key Contributions: Developed and implemented features for tracking and managing agricultural resources and designed intuitive user interfaces and integrated real-time data for better decision-making.
- Skills: Full-stack development (front-end and back-end), Data analysis and visualisation, Database management, Problem-solving, React, Nodejs, MongoDB, Chart.js, Git and Github.
- Outcomes: Delivered a data-driven platform that improved resource management and supported sustainable agricultural practices.

## Find me online

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### 7 LinkedIn

<http://www.linkedin.com/in/keneilwerangwaga14112004>

### 7 GitHub

<https://github.com/keneilwerangwaga14112004>

### 7 Portfolio

<https://keneilwerangwaga14112004.github.io/FullStackPortfolio/>

## Interests

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### Storytelling

## Key Achievements

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### Insights innovator

Recognized as an Insights Innovator at ExploreAI Academy for exceptional ability to extract clear, actionable insights from complex data. Simplified intricate visualizations, making them accessible and understandable for both technical and non-technical audiences.

### AWS Cloud Practitioner

Gained foundational knowledge of AWS core services, cloud architecture, security, and deployment models. Learned to design scalable, cost-efficient, and secure cloud solutions. Developed skills to plan, manage, and optimise cloud-based applications for real-world projects.