

# Benjamin Mwamburi Mwasambo

## Data Scientist/Analyst

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## Professional summary

I am a motivated and hardworking Data Scientist/Analyst with 5 years' experience in data driven business solutions and products development support. I am experienced in creating innovative technology solutions across diverse industries with knowledge in spatial, quantitative and qualitative data analysis; highly skilled communicator, with extensive technical knowledge able to serve as a trusted and valuable consultant; collaborates with all levels of internal and external developers and project stakeholders; leads teams in the development of new products, and driving integrated solutions that encourage long-term business growth.

On-going MSc. in Geospatial Information Science (GIS) and Remote sensing with technical skills of using R programming for both spatial and non-spatial data sets, different data formats manipulation from various sources: APIs, JSON, RDBMS, Spatial/Geodatabases.

I have a culture of continuous learning and I am always ready to take up challenges as they arise.

## Competencies

**Statistics software:** R

**Programming:** R, SQL

**Databases:** PostgreSQL, Spatial/Geodatabase

**Development editors:** RStudio

**Data visualization/Reporting:** R Markdown, R Shiny, ArcGIS

**Geospatial and Remote sensing:** ArcGIS, QGIS, ENVI, ERDAS imagine, R

**Version control systems:** GIT

**Operating systems:** Windows, Linux

## Professional Experience

**August 2020**  
**January 2018**

### Data Scientist, FarmDrive Limited, Nairobi, Kenya

- Organizes large datasets to obtain actionable insights including finding innovative ways to combine fields of data and ensuring high quality data management techniques.
- Collects data from diverse sources including web APIs and internal databases encoded in SQL.
- Utilizes advanced R programming skills to efficiently sort large data sets and apply filters and conditions to data.
- Spearheads processing of structured and unstructured data in order to analyze large amount of information and isolate trends and patterns.
- Collaborates with engineering and product development teams to build appropriate predictive models (including credit risk modelling) and machine learning algorithms.
- Create meaningful data visualization that clearly communicates findings and relates them to business impact.
- Processes solution and strategies to address business challenges and provides foundation for data-driven decision making.
- Big data analysis using the sparklyr package.
- Analysis of loan portfolios.
- Analysis of market/customer churn rate.
- Creating interactive dashboards with Shinydashboard and writing reports with Latex and Rmarkdown packages.
- Manage day to day teams to meet timelines for client's deliverables.
- Analysis of geospatial and remote sensing data (Vector and raster data formats) including spatial modelling and interpolation.

R Shiny ArcGIS Excel PostgreSQL

December 2017  
February 2016

#### Program manager, FarmDrive Limited, Nairobi, Kenya

Lead in operations department which consisted of customer support, data analysis, loan recovery and collections units:

- ∠ Support of products development.
- ∠ Defining programs governance arrangements.
- ∠ Managing communication with stakeholders.
- ∠ Impact reporting, customer on-boarding and retention.
- ∠ Accounts escalation, customer relationships management and advocacy.
- ∠ Strategic loans collection planning and implementation.
- ∠ Data analysis and reporting.
- ∠ Managing and analysis of geospatial projects and data.
- ∠ Development of reports and dashboards

R ArcGIS ENVI Excel PowerPoint

January 2016  
October 2015

#### Geospatial data analyst intern, Kenya Forest Service, Nairobi, Kenya

- ∠ Analysis and visualization of geospatial data

## Projects and Achievements

- > Humanitarian response to cyclone Idai in Zimbabwe: [dashboard link](#)
- > Participated in development of FarmDrive's geolocation algorithm: [blog link](#)
- > Insights from a loan portfolio analysis for a FinTech loan product: [project link](#)
- > Time series market price analysis for Agricultural commodities in Kenya: [blog link](#)
- > Using satellite data(Earth observation-ESA) to monitor Agricultural loan risks: [Pilot description](#)
- > University of Eldoret and University of Eastern Finland collaborative project on improving Forestry Education in Kenya;- helped in development of two mobile applications(**Eucalyps** and **MtiCalc**): [APK link](#), [Research paper](#), [Standard digital article](#), [Daily nation article](#)

## Languages

English ●●●●●  
Swahili ●●●●●

## + Strengths

- ∠ Team player
- ∠ Research
- ∠ Motivated
- ∠ Capacity building
- ∠ Passionate

## Education

2017 - 2020: MSc. Geospatial Information Science & Remote sensing - Jomo Kenyatta University of Agriculture & Technology, Kenya  
2011 - 2015: BSc. Forestry – University of Eldoret, Kenya

## Professional development

2019 - 2019: Data Scientist with R - DataCamp accredited (Statement of accomplishment awarded)  
2015 - 2015: Introduction to basic GIS and remote sensing – Kenya Forest service

## “References

**Rita Kimani**  
Co-Founder & CEO  
FarmDrive Limited  
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**Professor Balozi Bekuta Kirongo**  
Head, Dept. of Forestry & Wood science  
University of Eldoret  
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