

# Brian Mwangi

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## DATA ANALYST

### Profile

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Skilled data analyst with in-depth knowledge and experience in collecting, organizing, interpreting and presenting data for actionable insights. Confident communicator with the ability to convey information in a clear, efficient and beneficial way for informed decision making.

### Skills

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- Data visualization using, R ggplot2, R Shiny, tableau, Arc GIS Online
- Qualitative and quantitative data analysis
- Data mining and collection
- Geospatial analysis using Arc GIS, QGIS, R
- Data analysis using R, Python
- Business Intelligence (BI)
- Coding using survey tools such as commcare, survey CTO
- Reporting using RMarkdown
- Machine learning
- Proposal writing
- Data technologies
- Data quality control and management
- UX design
- Program support

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### Experience

#### EED Advisory

May 2021 - Present

##### *Analyst*

- Creating insightful visualizations and dashboards in the Energy, Climate change and water sectors for use in company reporting
- Improving the Firm's reporting by creating visually appealing PowerPoint template for internal use and presentation to various stakeholders and potential clients
- Collecting energy, water and climate change datasets for analysis and presenting findings for high-quality decision making
- Developing insightful maps and infographics for use in company reporting
- Improving the data culture within the Firm by sharing appropriate data technologies to enhance efficiency in daily operations
- Supporting the Firm's business development processes including developing concept notes, expressions of interest and proposals
- Supporting the Firm's project implementation processes including research, training and strategy design through office and field-based assignments

#### Aquaya

##### *Research Assistant*

Jan 2019 – April 2021

- Data analytics and visualization relating to various programs;
  - The [Water quality dashboard](#) enabled my Research Manager in Ghana to analyze and track kiosk water quality results over a period of months and make decisions on how to improve water quality

- The [Ghana kiosk dashboard](#) was a source of insights for the implementing partner on the performance of several water kiosks in revenue collection
- The [Ghana dashboard](#) displays the social demographics, water, health, sanitation, economic and infrastructural parameters for Ghana and was used as a decision-making tool for program implementation by stakeholders, project managers and the Ghana government to improve access to WASH services
- The [Kenya ASALs dashboard](#) has enabled my program manager select target counties, sub-counties and wards based on the ODF status
- Developed appealing maps using Arc GIS, R, QGIS for use in programs
- Offered guidance on appropriate data technologies to improve employee efficiency
- Improving data literacy through training of appropriate data tools such as Tableau, R
- Program support;
  - Supported my Senior manager with qualitative and quantitative data analysis, preparation of figures, interpretation and presentation of findings to key stakeholders
  - Field data management
  - Conducting interviews and focus-group discussions
  - Overseeing field data collection
  - Assisted with setting up interview in data collection platforms such as Commcare, Geopoll
  - Helped in the development of interview guides
  - Data collection using commcare

*Aquaya Learn Fellow*

June 2018 – Dec 2019

- Data analytics and visualization;
  - The [Nakuru dashboard](#) enabled my program manager select secondary sampling units through exploratory analysis of variables such as water access, population density, sewer connection and open defecation rates
  - The [Big data dashboard](#) enabled Aquaya employees to easily access and download water, environmental and socio-economic datasets relating to various programs
  - The [Ghana dashboard](#) is an exploratory tool that enabled my program manager identify target districts for WASH programs implementation
  - The [Ghana map application](#) provided useful insights on the poverty rates and the District League Score of districts in Ghana
- Field work program support;
  - Conducting interviews and focus-group discussions with communities, key stakeholders from private and public sectors
  - Qualitative and quantitative data collection, analysis and reporting of findings

- Co-facilitated enumerator training

### **Membership**

- R Users Nairobi
- AI Kenya
- Towards Data Science
- Nightingale (Data Visualization Society)
- Heartbeat

### **Personal Projects**

- The [Kenya 2019 census dashboard](#) provides actionable insights on the population demographics of the 47 counties in Kenya.
- The [Teen pregnancy dashboard](#) is a source of knowledge on the teen pregnancy trends and the most vulnerable counties, sub-counties and wards in Kenya.

### **Education**

#### **Multimedia University of Kenya**

Sept 2013 – Nov 2017

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Bachelor of Science in Mathematics and Computer Science  
Specialized in Applied Mathematics option

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### **Referees**

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