Kiragu. M. George, Mr.

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EDUCATION

Honors Sc., WorldQuant University (January 2019 - September 2019)
Major: Machine Learning and Statistical Analysis

B.Ed(Arts), Egerton University, Njoro-Kenya (September 2013 - June 2017)
Major: Mathematics and Geography

Associate, University of Notre Dame (September 2017 - January 2018)
Major: Geographic Information Systems.

Associate, Havardx (February 2018 - January 2019)
Major: Climate Energy

TECHNICAL SKILLS

Software including: Git, SQLite, Tableau, PowerBI, QGis, Anaconda, Android Studio, Blender, Inkscape.

Packages including: Python, SciKit, sklearn (contributor), pandas, NumPy, plotly, SciPy, matplotlib, folium, Streamlit, Django, LaTeX

TECHNICAL EXPERIENCE

Kenya Red Cross Society Nairobi, Kenya
Information Management Officer (January 2024 - Present)

- Data Collection and Analysis : I collaborated with Programme teams (Operational Disaster Management, Global Fund, Reseach Hub (ICHA)) through Monitoring Evaluation Accountability and Learning department to identify data needs and data collection tools and methodologies.

  I supported in Collecting, Cleaning and Validating data from various sources (ODK, Microsoft Forms, Google Forms) to ensure accuracy and reliability.

  I analysed data using Statistical (Python, Excel) and Data Visualization techniques (PowerBI, Tableau, Streamlit) to extract meaningful insights for the senior management teams.

  I prepared reports and presetations based on the analysed data to facilitate showcasing and publications of work done by different projects.

- Information Management Systems : I maintained and updated Information Management Systems (Such as the RedRose and 121 platforms which are beneficiary management platforms for delivaring Cash Voucher Assistance interventions on developing Vouchers and Disbursing Cash directly respectively) and DataBases (SQLite3) to ensure data integrity and accessibility.

  I developed and implemented data storage and archiving procedures in compliance with organizational policies and Standards.

  I also provided trainings and support to staff on using information management systems effectively.

- Information Dissemination : I designed and produced information products (Maps, Charts and Dashboards) to visualise and communicate to stakeholders.

  I cordinated with public relations and commuications department to disseminate information through various channels (X previously called Twitter, Institutional website and magazines, ReliefWeb, and Linkedin).

- Capacity Building and Coordiantion : I conducted capacity-building, workshops and trainings activities (HQ, Regional and Special Refugee settings) to enhance staff and volunteer skills in information management and analysis.

  I collaborated with internal and external (including UN agencies) partners to share information to facilitate regional reporting, best practices and lessons learned.

  I also participated in coordination meetings and working groups to contribute to the development of information management strategies and standards.

Kenya Red Cross Society   Nairobi, Kenya
Cash Voucher Assistance Information Management Officer   (March 2021 - Dec 2023)

- Consultation: I supported regional countries (Uganda, Ethiopia, Zimbabwe) to advocate for Information Management, tools options, analysis of data needs in programme Standard operating procedures
- Training: I facilitated and supported in providing training to introduce concepts and Training for Specific Information Management skills in cash context including Market Assessments.
- Operational Support: I dedicated and provided direct assistance to deliverables in programming operations.
  I supported in conducting Market Assessment (Pre-Crisis Market Assessments, Operational Market Assessments)

- Monitoring and Evaluation: I facilitated and provided support during lesson learning and experience sharing to benefit the wider Red Cross Red Crescent Network.
- Data Literacy: I provided pratical guidance or advice on data protection in Cash Voucher Assistance (CVA) related to the IFRC policy.
  I facilitated data literacy workshops for CVA, advice on data considerations in Cash SoP's.

- Data Collection: I provided technical support for KoBo Toolbox/ODK srver set-up and forms creation.
  I designed survey forms(Assessment, Market Monitoring, beneficiary registration and identification)

- Data Management: I supported in the design of beneficiary database to register and monitor CVA interventions.
  I supported in analysing programme progresses and Set-Up of RedRose data management platforms.
  I aided in the use of digital communications for Post-Distribution Monitoring
  I would provide advice on digital payments and integration with data management.
  I aided in providing support for audit and data security.

- Data Visualization: I would design and assist in developing dashboards, reports, maps, to indicate programme status and progress
  I designed and developed Visualization for Community Engagement and Accountability.
  I facilitated basic training on Visualization tools such as PowerBI, Tableau Excel graphs.

- Data Analysis: I designed and develop tools to analyse markets, socio-economic indicators and other sectoral inputs.
  I assisted in analysing assessment data, response analysis, transfer value, targeting, programme progress and impact.

Freelance   Nakuru, Kenya
Data Scientist   (February 2018 - March 2021)

- I would develop Machine Learning Statistical Models and Data Analysis for Community Contributions
- I did data visualizations for Humanitarian and Health Sectors on nCoVid-19 utilising Suseptible Infected and Recovery (SIR) modeling.
- I would develop report Web Pages to showcase findings to conference audiences.
- I freelanced as a Graphic Designer.
- I would also support Android developers as a front-end Android app tester.

Oil-Crop Development LTD (Faida Seeds) Nakuru, Kenya
Field Supervisor (November 2019 - February 2020)
- Supervised farm preparations activities
- Tallying of daily package production
- Accounting for the casual-labour workforce including daily wages.
- Checking invoices, receipts and issue notes

Teaching Experience

Cash Voucher Assistance for WASH outcomes International, Global
Training - Facilitator (May 2023 - Present)
- Facilitate trainings on CVA for WASH outcoemes as per the Global WASH Cluster (GWC) guidelines.

Kenyatta Girls Secondary School Thika,Kenya
Teacher - Internship (May 2016 - August 2016)
- Taught Mathematics and Geography
- Set, Invigilated, Marked internal Examinations
- Prepared Schemes of Work and Lesson Plans.

Leadership Experience

Red Cross Red Crescent Cash and Water, Sanitation and Hygiene Technical Working Group Global, Worldwide
Focal Person of the Pilot Projects and Training Workstreams Oct 2023 - Present

Red Cross Red Crescent Cash and Water, Sanitation and Hygiene Technical Working Group Global, Worldwide
Deputy Focal Person of the Pilot Projects and Training Workstreams May 2023 - Oct 2023

Kenya Cash Working Group Kenya, Kenya
Member (March 2021 - Present)
- Lead of the Information Management Workstream
- Member of the Minimum Expediture Basket Workstream
- Member of the Kenya Cash Working Group

Community Service

Kenya Red Cross Society Nakuru, Kenya
Volunteer (January 2018 - Present)
- Data and GIS Focal person
- Provided support in the creation of the SARS - nCoVid-19 dashboard
- Supported the nCoVid-19 Fumigation Pilot Project.
- Participated in the 2018 Safer Access Review Framework.

Nairobi Women in Machine Learning and Data Science Nairobi, Kenya
Co-Organiser (April 2020 - Present)
- Deep Dives: A hands-on project that helps members within the NWiMLDS Community acquire practical skills in data science, Machine Learning and A.I. that are curtailed and curated in their various environmental realities.

SciKit-Learn Open Source Contribution Sprint Global, Worldwide
Contributor (June 2020 - Present)
Rotaract Club of Menengai Nakuru, Kenya
Member (Oct 2020 - March 2021)
- Public Relations (P.R) and Design Director
- Club Secretary
- Board Member

Awards	**Mini-Freighter Drop Zone Commander**	Wings for Aid

Mini-Freighter Drop Zone Commander
Mini-Freighter Drop Zone Commander — Wings for Aid (April 2024)
- [Mini-Freighter Drop Zone Commander](#)

Microsoft Global Hackathon 2023 — Microsoft Incorporation
RedCross Arid and SemiArid Population Movement Predictor Modelling (December 2023)

International Federation of the Red Cross Red Crescent Movement — Solferino
Academy
Strategic Foresight and Futures Explorer (November 2022)
- [Strategic Foresight Explorer](#)

Red Cross Red Crescent Movement Market-Based programming for WASH British
Red Cross Society
ToT for Market-Based Programming for WASH outcomes (December 2022)

Linking Social Protection and Humanitarian CVA — CaLP Network
Linking SP and Humanitarian CVA (March 2023)

Humanitarian Diplomacy and Durable Solutions — Regional Durable Solutions (ReDSS)
Durable Solutions (March 2023)

Publications

Published: [Pre-crisis Market Mapping and Analysis Report for Busia County](#)

Published: [Pre-Crisis Market Mapping and Analysis Report for Tana River (Oct - Nov 2021)](#)

Published: [Pre-Crisis Market Mapping and Analysis Report for West Pokot and Kitui (Sept - Oct 2021)](#)

Published: [WASH market assesment in Taita Taveta - Kenya (2023)](#)

References

Dr. Halima Saado (PhD) Ag. Vice-Chancellor UMMA University Nairobi. +254710315830 dr.saadoabdillahi@gmail.com	Steve Kenei GIS/IM American Red Cross Nairobi +254723704126 steve.kenei@redcross.org stevekenei@gmail.com	Safia Verjee Executive Director, International Center for Humanitarian Affairs P.O Box 40712, 00100, Nairobi. +254728679644 verjee.safia@redcross.or.ke