

Bruce I. Amalemba

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

BACKGROUND

Data Consultant and Applied Statistician specializing in building data infrastructure, deploying machine learning solutions, and designing rigorous field research frameworks. As Co-Founder of Kaldrix, I lead technical initiatives that help academic researchers and enterprise clients transition to automated, data-driven workflows. With a strong background in time series forecasting, humanitarian data standards, and IT systems administration, I focus on combining statistical rigor with practical enterprise technology to deliver measurable impact.

CORE COMPETENCIES

- **Statistical Analysis & Modeling:** Time Series Forecasting, Bayesian Inference, Machine Learning, Multivariate Methods, Sampling Design
- **Programming & Databases:** Python, R, SQL
- **Humanitarian Data & MEAL:** Survey Design, Qualitative & Quantitative Data Management, Field Research Methodology, Responsible Data Handling
- **Soft Skills:** Entrepreneurial Leadership, Client Consulting, Technical Mentorship, Cross-functional Collaboration

EXPERIENCE

Co-Founder

Kaldrix (www.kaldrix.org) | Nairobi, Kenya | 2026 – Present

Kaldrix is a technology and data consultancy combining rigorous academic theory with advanced technical execution to drive digital transformation and scalable growth for enterprises.

- Co-founded the firm to drive enterprise transformation through data analytics, AI/ML solutions, cybersecurity, and cloud infrastructure.
- Spearheaded the development of custom BI dashboards, automated sales data pipelines, and digital presence solutions for SMEs, startups, and academic researchers in East Africa.
- Built the Kaldrix Academy platform to train and certify emerging data professionals in the region through specialized tech curriculum and mentorship programs.
- Developed field research methodologies, survey designs, and digital data collection workflows for academic and NGO-aligned research initiatives.

IT Attaché

Nakuru Law Courts | Nakuru, Kenya | May 2025 – Aug 2025

- Administered court case management databases, ensuring data integrity, security compliance, and high system availability for daily judicial operations.

- Led the digitization of physical court records, reducing information retrieval time for judicial staff through structured data entry workflows.
- Produced operational reports from case data to support court administrators in workload tracking and resource allocation.
- Maintained hardware and network infrastructure across court offices to ensure uninterrupted daily operations.

IT Manager

Data Science Society, Maseno University | Maseno, Kenya | 2024 – 2026

- Managed the society's tech infrastructure — website, digital tools, and social media — supporting a growing membership of data science students.
- Organized technical workshops, hackathons, and data competitions that provided hands-on skill development for members.
- Mentored junior students in Python, R, and applied statistical analysis, bridging the gap between classroom theory and practical application.

EDUCATION

Bachelor of Science in Applied Statistics with IT

Maseno University | Maseno, Kenya | 2022 – Expected Nov 2026

- **Research Project:** "Temporal Analysis of Super Petrol Pump Prices in Nairobi (2006–2025)"
 - Performed trend decomposition, seasonality analysis, and stationarity testing on 19 years of petroleum pricing data.
 - Built SARIMA and exponential smoothing models to forecast fuel price trajectories, supervised by Dr. Rangita Apaka.
- **Advanced Coursework:**
 - **Applied Statistics:** Machine Learning, Time Series Analysis & Forecasting, Bayesian Inference, Statistical Modeling, Analysis of Categorical Data, Operations Research, Multivariate Methods, Theory of Sampling Techniques, Demography & Social Statistics, Non-Parametric Methods.
 - **IT & Programming:** Object-Oriented Programming, Data Structures, Algorithm Design, Data Management, Statistical Computing.

CERTIFICATIONS

- **Responsible Data Management in Emergencies** – Humanitarian Leadership Academy
- **Ethical AI in Humanitarian Work** – Humanitarian Leadership Academy
- **Qualitative Data Management and Analysis for M&E** – IDEAL / USAID
- **Why Data Rights Matter** – CALP Network / Oxfam
- **Introduction to Market Analysis** – CALP Network / IRC
- **Mastering Asset Management** – Humanitarian Leadership Academy / Save the Children / Amazon
- **Data Standards** – Kaldrix Academy
- **Introduction to MEAL & Logic Models** – Humanitarian Leadership Academy



Adaptive Management

Data Standards

Logic Models

Introduction to MEAL

Internal Control

LANGUAGES

- **English:** Fluent / Professional Working Proficiency
- **Swahili:** Fluent / Native Proficiency

REFERENCES

Brian Obware

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Dr. Rangita Apaka

Lecturer, Dept. of Statistics & Actuarial Science

Maseno University

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