

# RUTH MALUU KASINA

## DATA ANALYST

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## PROFESSIONAL SUMMARY

ALX-certified Data Analyst with a BSc in Civil Engineering and two years of hands-on experience turning operational data into clear, decision-ready outputs. Proficient in SQL (MySQL, PostgreSQL), Excel (Power Query, pivot tables, financial modelling), Power BI, and Python. At Makao Tech Builders, built budget and progress reporting systems that achieved 97% accuracy and were relied on directly by senior management for cost control and contractor oversight across a complex, multi-phase infrastructure project. Independent analytical work includes a 30-project cost variance study that identified an 18.4% average overrun with phase-by-phase root cause breakdowns, an HR attrition dashboard spanning 6 departments, and a water access analysis covering 5 provinces. Brings strong cross-functional communication skills and a track record of packaging complex datasets into narratives that drive faster, better-informed decisions.

## CORE COMPETENCIES

- **Data Analysis:** Exploratory data analysis, trend identification, variance analysis, cost modelling, demand forecasting support
- **SQL:** MySQL, PostgreSQL, data extraction, cleaning, transformation, multi-source joins, query optimisation
- **Excel:** Power Query, pivot tables, complex formulas, financial models, dynamic dashboards, automated reports, data validation
- **Python:** pandas, numpy, data cleaning, scripting, workflow automation, reporting pipelines (actively developing)
- **Data Visualisation:** Power BI, DAX, KPI dashboards, executive-level data storytelling, Tableau (working knowledge)
- **Operational Analytics:** Infrastructure project cost tracking, contractor performance data, logistics reporting, cross-departmental insight delivery

## WORK EXPERIENCE

### Data Analyst

July 2026 – Present

AnalystLab Africa | Remote

- Cleaned and analyzed 4+ real-world datasets (e-commerce transactions, streaming platform catalog, banking and telecom churn data) in Python/Pandas, handling missing values, duplicates, and formatting inconsistencies, then delivered exploratory analysis with 5+ visualizations per dataset to surface sales trends, customer behavior, and content patterns.
- Wrote SQL queries across two relational databases (Chinook music store, AdventureWorks sales) using joins, subqueries, window functions, and aggregations to answer business questions on revenue trends, top customers, and product performance.
- Built interactive Power BI/Tableau dashboards with KPI cards, slicers, and drill-downs to track metrics like revenue, profit margin, and regional performance, translating raw sales and public health data into stakeholder-ready insights.
- Designed and deployed an end-to-end ETL pipeline in Python, pulling live data from a weather API, transforming it with Pandas, and loading it into a structured dataset, then documented the full process in a GitHub repository with README and demo walkthrough.

## Operations Data Analyst (Construction & Logistics)

Feb 2024 – Jun 2026

Makao Tech Builders Limited | Nairobi, Kenya

- Built and maintained Excel-based data consolidation and reporting systems across a logistics-intensive, multi-phase infrastructure project, producing weekly budget and progress reports at 97% accuracy, used directly by senior management for cost tracking, contractor payment certification, and delivery oversight.
- Tracked project expenditure against approved budgets across multiple cost lines, identified variances early, and coordinated corrective action across subcontractors and logistics partners, contributing to a 15% reduction in delays against the original programme.
- Managed procurement and logistics data flows across all project workstreams, ensuring full cost accountability and audit-ready documentation throughout the project lifecycle.
- Led a team of 15, restructuring task scheduling and operational workflows to deliver the project 10% ahead of schedule while maintaining full quality and safety compliance.

## Data & Planning Intern

Jan 2023 – May 2023

Kenya Urban Roads Authority (KURA) | Nairobi, Kenya

- Collected and structured field datasets across 10+ active infrastructure projects, including site assessments, measurements, and compliance records, feeding clean data into planning and feasibility reports for engineering leadership.
- Contributed to cost estimation and Bills of Materials preparation across multiple projects, building accuracy and rigour in financial data work.
- Maintained 100% safety compliance across all supervised works with zero incidents.

## PROJECT EXPERIENCE

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### Mjengo Metrics — Construction Cost Analysis *SQL | Excel*

- Gathered cost, material usage, and budget data from 30 commercial construction projects, cleaned and structured the dataset in SQL, and ran variance analysis to identify an 18.4% average cost overrun. Broke down drivers by project phase, visualised findings in Excel, and produced a structured report with procurement recommendations.

### HR Attrition Dashboard *Power BI | SQL | Excel*

- Queried HR data to investigate turnover patterns across 6 departments. Identified overtime burden and salary band structure as the primary drivers. Built a Power BI dashboard surfacing trends by department and seniority, then presented findings with data-backed takeaways to a simulated leadership audience.

### Maji Ndogo Water Access Analysis *SQL | Excel | Power BI*

- Pulled and cleaned water source data across 5 provinces, identified contamination hotspots, infrastructure gaps, and urban-rural service disparities, then packaged findings as a structured report with visualisations designed for a non-technical audience.

### Customer Segmentation Analysis *SQL | Excel*

- Applied RFM methodology to 200 retail customers across 3 years of transaction data, identified 4 behavioural cohorts, and developed targeted retention and growth strategies for each segment.

## EDUCATION

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### BSc. Civil Engineering (Second Class Honours, Upper Division)

Jomo Kenyatta University of Agriculture and Technology

### Data Analytics Certificate – African Leadership Experience (ALX)

- Cleaned, analyzed, and visualized large datasets using Excel, SQL, and Power BI to support decision-making.