

Mercy Cherono

Emailing Address: mercy.cherono@aims.ac.rw

Nationality: Kenyan

Phone: +254707426450

LinkedIn: [Here](#)

Github: [Here](#)

PROFESSIONAL SUMMARY

Data Science professional with an MSc in Mathematical Sciences (Data Science) from AIMS (Graduated with Distinction) and a BSc in Actuarial Science (First Class Honours). Experienced in Python automation, SQL analysis, data cleaning, statistical modelling, and insurance risk & compliance processes. Proven ability to build end-to-end data pipelines and deliver actionable insights from complex datasets. Passionate about applying analytical and finance skills to remote Data Analyst roles, including AI evaluation and prompt engineering.

PROJECTS

COVID-19 Data Cleaning & Dashboard Automation 2026

Python | pandas | openpyxl | Excel | Kaggle Dataset

- Built an end-to-end Python automation pipeline that cleaned a 209-country dataset containing 819 missing values, reducing manual processing time by approximately 80%.
- Engineered new features, including Death Rate (%) and Risk Level classification using conditional logic.
- Created a professional Excel dashboard with KPI cards and charts, enabling faster visualisation and insights from raw data.

Master's Dissertation: A Non-Parametric Approach to Determine the Probability of the First Success

- Developed a statistical model using R/Python to estimate success probabilities in sequential events; applied to risk scenarios.

Undergraduate Thesis: Logistic Regression Model — Factors Contributing to Low Life Insurance Uptake Among Kenyan Youths

- Analysed survey data from Karatina University to identify key barriers to life insurance uptake using statistical modelling.

PROFESSIONAL EXPERIENCE

BRITAM INSURANCE — Nairobi, Kenya

Mar 2024 – Dec 2025

Business Processing and Compliance Assistant — Full Time

- Processed 100+ new and renewal policies monthly while maintaining 100% compliance with SLAs and regulatory guidelines.
- Prepared and uploaded benefit setup files and member data for corporate schemes and retail policies, ensuring accurate allocation and reducing reconciliation errors.
- Managed endorsements, scheme reconciliations, and client data maintenance, supporting smooth renewals and new business operations.
- Coordinated medical card requests and issuance within tight turnaround times (TATs), maintaining high record accuracy.

MEGA WHOLESALERS LTD — Nairobi, Kenya

Oct 2023 – Dec 2023

Data Analytics and Data Programming Intern

- Developed Python scripts and SQL queries to automate data cleaning, transformation, and forecasting pipelines for last-mile delivery optimisation and sales/procurement forecasting.

- Analysed large operational datasets to identify inefficiencies, supporting more accurate projections and operational improvements.

MINET KENYA — Nairobi, Kenya

Apr 2022 – Aug 2022

Medical Underwriter — Full Time

- Underwrote new business, renewals, endorsements, upgrades, and cancellations for multiple policies while strictly adhering to guidelines.
- Prepared debit/credit notes within stipulated timelines and performed monthly reconciliations of statements against internal systems.
- Cleaned and reconciled membership lists to ensure only eligible members received coverage, minimising overpayments during renewals.

MINET KENYA — Nairobi, Kenya

Aug 2021 – Apr 2022

Medical Underwriting Intern

- Supported the full underwriting cycle, including new business, renewals, and cancellations.
- Managed membership list clean-ups, debit/credit note preparation, and medical card updates/dispatch for clients.

EDUCATION

African Institute for Mathematical Sciences (AIMS) — Kigali, Rwanda

Aug 2022 – Jun 2023

MSc. in Mathematical Sciences — Data Science | Graduated with Distinction

Karatina University — Nyeri, Kenya

Aug 2017 – Dec 2021

BSc. Actuarial Science | Graduated with First Class Honours

CERTIFICATIONS & ADDITIONAL TRAINING

Kenya Accountants and Secretaries National Examinations Board (KASNEB)

Certified Investment and Financial Analyst (CIFA)

ALX Africa Software Engineering Programme

- Gained hands-on proficiency in **Linux command-line (Bash/Shell)** for file operations, automation scripts, batch processing, and system administration.
- Applied Linux and Shell scripting continuously since 2022 in personal workflows and academic projects alongside Python.

SKILLS

- Programming & Analytics: **Python (Advanced – scripting & automation)**, R, Julia, SQL, MS Excel (Advanced)
- Tools: Git, **Linux Command Line / Bash Shell (proficient since 2022, ALX Programme)**, LaTeX, Microsoft Office, Power BI
- Domain Expertise: Risk Assessment, Data Reconciliation, Insurance Underwriting, Financial Modelling, Valuation Analysis, Corporate Finance, Investment Analysis
- Languages: Fluent in English and Swahili
- Soft Skills: Excellent Communicator, Great Interpersonal Skills, Complex Problem Solver, Service-Oriented

REFERENCES

Available upon request.