

KALAMA BRIAN ZIRO

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CAREER ASPIRATION

To become a highly skilled Actuarial Scientist, Data Analyst, and Django Backend Developer. I aim to combine actuarial principles with data science, machine learning, and software development to build intelligent financial, risk, and analytical systems that drive decision-making in businesses, institutions, and communities.

EDUCATION BACKGROUND

Bachelor of Science in Actuarial Science

Karatina University

2024 – Present

Kenya Certificate of Secondary Education (KCSE)

Malindi High School

2023

Mean Grade: (C +)

Kenya Certificate of Primary Education (KCPE)

Mwatate Junior Academy

2019

Relevant Coursework:

Data Analytics, Statistical Computing, Machine Learning, Data Visualization, Business Intelligence, Web Development, Mathematical Modeling.

PROFESSIONAL QUALIFICATIONS & MEMBERSHIPS

Member — Actuarial Society of Karatina University

Member — Applied Statistics Club

Member — Innovation Club

CEO — Ziro Creative Agency

OTHER SKILLS

Technical Skills

- **Programming:** Python, Django, R, SQL, C
- **Data Analysis:** Regression, hypothesis testing, EDA, statistical modeling
- **Tools:** Excel (Advanced), Power BI, Tableau, Pandas, Scikit-learn, Kaggle
- **Web Development:** Django REST API, HTML, CSS, JavaScript
- **Databases:** MySQL, MongoDB, SQLite

Soft Skills

Leadership, teamwork, problem-solving, critical thinking, communication, creativity.

Other

Excel automation (VBA/macros), data storytelling, dashboard design.

EMPLOYMENT HISTORY

Data Analyst

Ziro Creative Agency — June 2025 to Present

- Analyzed and interpreted datasets for business insights.
- Created dashboards using Excel and Power BI for KPI tracking.
- Automated recurring reports using Python scripts and Excel macros.
- Built financial and forecasting models for clients.

Junior Data Analyst Intern

Club Rongai — Jan 2024 to Apr 2024

- Cleaned and processed datasets using Excel and SQL.
 - Performed customer segmentation and behavior analysis.
 - Prepared weekly reports that supported marketing decisions.
 - Conducted exploratory data analysis to identify trends.
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VOLUNTEER EXPERIENCE

Machine Learning Engineer — EduLens AI Project

Volunteer | May, 2025 – August

EduLens AI is a community initiative using data and AI to help rural schools track academic performance and improve decision-making.

Roles & Responsibilities:

- Developed and trained machine learning models on school performance data.
 - Cleaned and labeled datasets for model training and evaluation.
 - Engineered new features to improve prediction accuracy.
 - Helped design an analytics dashboard for teachers and administrators.
 - Documented workflows, model performance, and improvement strategies.
 - Collaborated with research and development teams to enhance outcomes.
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PROJECTS

1. EduLens AI (Machine Learning + Analytics Platform)

- Built ML models to predict academic risk factors.
- Integrated dashboards for performance tracking.
- Cleaned and pre-processed large datasets for model training.

2. Zipay — Digital Payment Platform (Django + APIs)

A secure web-based payment solution.

- Developed backend using Django and Django REST Framework.
- Built user authentication, wallet logic, deposits, and withdrawals.

- Structured SQL database for transaction and user records.
- Designed frontend using HTML, CSS, and JavaScript.

3. NotifyHub — SMS & Notification Platform (Django)

A communication platform for sending branded SMS and notifications.

- Implemented Sender ID logic and message routing system.
- Integrated SMS API structure (similar to Africa's Talking).
- Built user dashboard for message logs, analytics, and delivery reports.
- Designed backend architecture for scaling and data storage.

4. Students' Sleeping Patterns Analysis

- Conducted statistical analysis on sleeping habits using Python and Excel.
- Used Tableau to create visual dashboards.
- Identified relationships between sleep duration, caffeine intake, age, and productivity.

5. Term Deposit Subscription Prediction

- Analyzed banking telemarketing data using Python.
- Developed a classification model with Scikit-learn.
- Evaluated and optimized features to improve accuracy.

6. Loan Amortization & Sinking Fund System (Django)

- Designed backend models for financial calculations.
- Implemented actuary-based formulas for loan repayment schedules.
- Integrated SQL database and reporting logic.

7. Django E-Commerce Platform

- Implemented secure login system, product management, and checkout flow.
- Designed backend APIs for inventory and cart management.

8. Sales Forecasting Model

- Forecasted monthly sales using Python + Excel.

- Improved inventory management through predictive analysis.

9. Interactive Business Dashboard (Retail)

- Designed Excel dashboard for KPI monitoring.
- Used pivot tables, charts, and slicers for dynamic visualization.

10. Financial Budget Tracker

- Automated budget monitoring using macros and formulas.
 - Improved cost control and variance analysis.
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PERSONAL INFORMATION

Date of Birth: 200

Gender: Male

Nationality: Kenyan

Languages: English, Kiswahili

Marital Status: Single

REFEREES

1. Sande Kashero

Senior Portfolio Manager, Lofty-Corban Investments Limited.

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