

# RONALD KEAH ZANI

Software Engineer |  
Cybersecurity | Data Analytics

 Nairobi, Kenya  
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 <https://portfolio-ten-sage-59.vercel.app/>

## Professional Summary

Detail-oriented and analytical IT professional with a strong foundation in data science, business analytics, and cybersecurity. Hands-on experience in data-driven CRM implementation, predictive modeling, and network operations. Combines a Bachelor's in Business Computing with practical skills in Python, machine learning, and data visualization to deliver actionable business insights. A proactive team player eager to contribute to data-centric or tech-driven roles.

## Experience

- July 2025 **AI in Software Engineering Trainee** | Power Learn Project (PLP) | Nairobi, Kenya (Remote)
- Nov 2025
- Completed an intensive AI and software engineering program, graduating with a certificate in December 2025.
  - Developed and deployed machine learning projects including Customer Churn Prediction and Bike-Sharing Demand models.
  - Applied Python, pandas, scikit-learn, and data visualization tools to solve real-world business problems.
- Aug 2025 **CRM Implementation Intern** | Incentive Travel Limited | Nairobi, Kenya
- Sep 2025
- Played a key role in the implementation of a new Customer Relationship Management (CRM) system.
  - Cleaned, standardized, and migrated client data into the CRM, improving data accuracy and usability.
  - Suggested process improvements that enhanced database reliability and cross-departmental workflow.
  - Collaborated with Tours, Travel, and Finance teams to ensure smooth system adoption.
- May 2024 **Network Management Attachment Intern** | Kenya Power and Lighting Company (KPLC)
- Jul 2024
- Nairobi, Kenya
  - Assisted in operations & maintenance of low-voltage power networks, including pole replacement, conductor repairs, and transformer testing.
  - Supported underground cable repair and participated in emergency response to power outages.
  - Gained hands-on experience in commercial services: meter reading, fault resolution, and smart meter management.

## Projects

**GitHub:** <https://github.com/keahzani>

### **Trading Signal Generator | Python, Pandas, NumPy, Technical Analysis Libraries**

- Developed a data-driven financial tool that processes historical market data to generate actionable buy/sell signals.
- Implemented technical indicators (moving averages, momentum oscillators) for algorithmic trading strategy testing.
- Engineered entry/exit rule generation and backtesting framework to evaluate signal accuracy.

### **Football.AI – Soccer Analytics Platform | Python, Scikit-learn, TensorFlow, Matplotlib**

- Built an AI-powered football analytics system for match outcome prediction and player performance evaluation.
- Applied machine learning models to extract strategic insights from football datasets.
- Created visualization dashboards to present performance metrics and predictive insights.

### **Flashcard.AI – Intelligent Study Assistant | Python, NLP (spaCy/Transformers), JavaScript**

- Designed an AI-driven flashcard generator that automatically creates Q&A pairs from text input.
- Utilized natural language processing to extract key concepts and formulate learning materials.
- Implemented spaced repetition algorithm to optimize knowledge retention and study efficiency.

### **AI Coding Tutor | Python, OpenAI API, Web Framework**

- Developed an intelligent programming assistant that provides contextual code explanations and learning support.
- Integrated AI language models to offer real-time feedback, hints, and programming concept explanations.
- Created interactive interface for learners to improve coding skills through guided problem-solving.

### **Secure E-Voting System | Django, Python, SQLite, HTML/CSS**

- Engineered a web-based electronic voting platform with emphasis on security and data integrity.
- Implemented secure voter authentication, encrypted vote storage, and tamper-resistant result computation.
- Designed for confidential, reliable election workflows with comprehensive audit trails.

## Technical Skills

**Programming & Data Science:** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL

**Web Development:** HTML, CSS, JavaScript

**Cybersecurity & Networking:** Cisco Cybersecurity Essentials, Network Troubleshooting, Threat Analysis

**Tools & Platforms:** Git, GitHub, Jupyter Notebook, CRM Systems, Tkinter (GUI)

**Business & Analytical Skills:** Data Cleaning, Predictive Modeling, Business Intelligence, Data Visualization, System Documentation

## **Education**

2021 - 2025

### **Bachelor of Science in Business Computing**

*Jomo Kenyatta University of Agriculture and Technology (JKUAT)* | Main Campus, Kenya

Graduated: December 2025 | Second Class Honours

Relevant Coursework: Data Structures, Database Systems, Business Intelligence, Software Engineering

2017 - 2020

### **Kenya Certificate of Secondary Education**

*Upper Hill School* | Nairobi | Kenya

B (Plain)

2008 - 2016

### **Kenya Certificate of Primary Education,**

*Kwashee Primary School* | Mombasa | Kenya

374 marks

## **Languages**

English Fluent

Swahili Native

## **References**

Sasha Njagi

Market Executive  
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