

RONALD KEAH ZANI

Software Engineer |
Cybersecurity | Data Analytics

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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, network operations, and AI-powered applications. Combines a Bachelor's in Business Computing with practical skills in Python, machine learning, and secure system design 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 an AI Coding Tutor an intelligent programming assistant that provides contextual code explanations, real-time feedback, and guided problem-solving for learners.
 - Applied Python, OpenAI API, and web frameworks to build a full-stack educational application.
- 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
 Incentive Travel Limited
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- Denis Masiga Senior Engineer
 Kenya Power and Lighting Company (KPLC)
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- Abigael Muindi Tours Consultant
 Jungle Dwellers
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