

# ARON

# KIPKURUI

## AI and ML engineer

### Projects

#### **KENWORK FREELANCER - RAG SYSTEM**

I developed a freelancer platform that features both manual and automatic client-freelancer matching capabilities. The automatic matching system utilizes AIME, an AI-powered solution that integrates a RAG (Retrieval-Augmented Generation) system with OpenRouter Free API and Hugging Face API. Through AIME, clients can identify the most suitable candidates for their projects by simply providing project details. The system also offers guidance on budget planning and job description optimization.

#### **CRYPTO CHATBOT**

As a professional trader, I developed a bot that predicts cryptocurrency prices and provides real-time actual prices by fetching data and news through CoinGecko API integration.

#### **DEVOPs TOOLKIT**

We collaborated to develop an AI-powered toolkit designed to predict buggy code, automatically generate docstrings using transformers, and create pytest tests with Codex. The solution is built for seamless CI/CD integration to enhance code quality, testing coverage, and developer productivity.

#### **X&O GAMING APP - MINIMAX ALGORITHM**

I develop a gaming application that allows users to play against an AI, integrating the MINIMAX algorithm and utilizing the Supabase database.

#### **ASHMATIC CONDITION DETECTOR**

I led a team in the development of a wearable device that detects changes in humidity and temperature, providing real-time notifications to individuals with asthma through IoT and messaging technology.

### Education

KENYATTA UNIVERSITY - MAMA NGINA UNIVERSITY

#### **BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

2023 - 2027

- **Key Coursework:** Probability & Statistics (A), Object-Oriented Analysis (A), Calculus I & II(A &B), Foundations of AI (B), Data Structures & Algorithms (B), Discrete Mathematics(A), Linear Algebra(A).
- **Academic Focus:** Strong foundation in the mathematical principles of ML (Calculus/Stats) combined with software architecture (OOAD).

ALX LEARNING

03/2024 - 08/2024

#### **AI ENGINEER MASTERCLASS**

PLP ACADEMY

02/2025 - 08/2025

#### **AI & MACHINE LEARNING**

CISCO LEARNING HUB

09/2025 - 11/2025

#### **DATA SCIENCE WITH PYTHON**

IBM LEARNING HUB

04/2025 - 09/2025

#### **CYBERSECURITY**

### About Me

A software engineer with expertise in machine learning, DevOps, and ethical hacking, I possess a strong foundation in MACHINE LEARNING. My portfolio showcases a dedication to building practical, innovative solutions, and I am seeking opportunities to contribute my skills to a forward-thinking organization.

### Contact

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🌐 <https://wizard-hash2.github.io/Arosite>

📍 Nairobi, Kenya

### Skills

- Python
- Machine Learning
- RAG (Retrieval Augmented Generation)
- Hugging Face APIs
- Git, CI/CD Pipelines, SQL/SUPABASE

### Language

- English
- Swahili

