

HEZRON PAIPAI

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Phone: +254 700 208 735

Location: Open to Remote or Relocation

Portfolio: <https://venomx.vercel.app>

GitHub: [TechVenom](#)

PROFILE SUMMARY

A highly motivated Software Engineer with a strong foundation in full-stack development, artificial intelligence, and machine learning. Experienced in building scalable web applications, AI-driven diagnostic tools, and intelligent user interfaces. Proven ability to work on real-world tech problems, particularly in healthcare and automation. Detail-oriented, solution-focused, and passionate about leveraging technology for social impact.

EXPERIENCE

Software Engineering Intern

Safaricom PLC — Nairobi, Kenya

May 2023 – Aug 2023

- Contributed to internal dashboards using React and TypeScript
- Built RESTful APIs using Node.js and Express for a customer feedback system
- Collaborated in Agile sprints with cross-functional tech teams
- Improved data retrieval speeds by 25% through MongoDB query optimization

Tech Stack: React, TypeScript, Node.js, Express, MongoDB

AI Research Intern

Intelinova Institute (Remote)

2022 – Present

- Designed machine learning models for medical image classification
- Built and optimized deep learning pipelines using TensorFlow and PyTorch
- Co-authored technical reports and supported dataset curation

Tools: TensorFlow, PyTorch, Pandas, Jupyter

EDUCATION

Bachelor of Science in Computer System Engineering

Kirinyaga University — Kirinyaga, Kenya

2020 – 2024

- Specialized in Artificial Intelligence, Software Design, and Full Stack Development
 - Relevant Coursework: Machine Learning, Data Structures, System Architecture
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CERTIFICATIONS

- Microsoft Azure AI Fundamentals
 - Kaggle: Advanced AI and Deep Learning
 - IBM: Python for Data Science
 - FreeCodeCamp: Full Stack Web Development
 - Coursera: AI for Everyone – Andrew Ng
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PROJECTS

Brain Tumor Detection AI

- Built a CNN to classify MRI scans; achieved 93% test accuracy
- Deployed using Flask and TensorFlow

AI Malware Detection System

- Created an ML model to classify malicious URLs
- Used Scikit-learn and Python for supervised learning

Sign Language to Speech Converter

- American Sign Language to text and audio in real time
- Utilized MediaPipe, OpenCV, and Text-to-Speech APIs

Face Recognition App

- Developed a real-time face recognition system with dlib and OpenCV

Stroke Risk Predictor

- Built and deployed a health risk model on Heroku using Flask

AgentZero AI

- Designed a reinforcement learning agent capable of self-directed decision-making
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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL

Frameworks: React.js, Node.js, Express, Flask

Libraries: TensorFlow, PyTorch, OpenCV, Scikit-learn, Pandas

Databases: MongoDB, MySQL

Tools: Git, Docker, Postman, VS Code

Expertise: Machine Learning, REST APIs, Computer Vision, Full Stack Development

ACHIEVEMENTS

- Finalist in Kenya AI Hackathon (2023)
 - Academic Excellence Award (Kirinyaga University) — 3 consecutive years
 - Published multiple projects in university tech journal
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ADDITIONAL INFORMATION

Languages: English (Fluent), Swahili (Fluent)

Availability: Immediate

Work Preference: Remote or Relocation

HOBBIES AND INTERESTS

Exploring emerging AI tools, attending developer meetups, writing tech blogs, and contributing to open-source projects.