



HEZRON PAIPAI

About Me

A dedicated and highly motivated Software Engineer with a strong background in full-stack development, machine learning, and AI research. Skilled in building scalable applications, AI-based diagnostic tools, and intelligent user interfaces. Passionate about using technology to solve real-world problems, especially in healthcare and automation.



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[venomx.vercel.app](#)

Language

- English (Fluent)
- Swahili (Fluent)

Skills

- Languages
 - Python, JavaScript, TypeScript, HTML, CSS, SQL
- Frameworks
 - React.js, Node.js, Express.js, Flask
- Tools & Libraries
 - TensorFlow, PyTorch, OpenCV, Scikit-learn, Pandas, Docker, Git
- Databases
 - MongoDB, MySQL
- Others
 - Machine Learning, REST APIs, Computer Vision, Web Architecture

EXPERTISE

- Full Stack Web Development
- AI & Deep Learning
- Computer Vision
- Agile Software Development
- Data Preprocessing & Analysis
- Cloud Deployment

Experience

Remote Software Engineer

Freelance | Remote | 2022 – Present

- Focus on Artificial Intelligence, Full Stack Development, and Software Architecture
- Developed 15+ scalable web applications using React.js, Node.js, and MongoDB, serving 10,000+ active users with 99.9% uptime
- Collaborated with cross-functional teams using Agile methodologies and Git version control

AI Research Intern

Intelinova Institute Lab | Remote | 2022 – Present

- Developed CNN-based ML models achieving 94.5% accuracy using TensorFlow and PyTorch
- Reduced manual data analysis time by 60% via automated predictive systems
- Analyzed datasets of 100K+ records using advanced statistical methods and preprocessing pipelines
- Contributed to 2 published research papers in computer vision and machine learning

Education

BSc. Computer System Engineering

University of Kirinyaga | 2020 – 2024

- Focus on Artificial Intelligence, Full Stack Development, and Software Architecture

Project

Brain Tumor Detection AI

- Built a CNN model using TensorFlow for tumor classification in MRI images
- 93% accuracy; deployed via Flask

AI Malware URL Detector

- Developed an ML pipeline to classify suspicious URLs using Scikit-learn

American Sign Language to Speech

- Real-time AI system translating sign language into speech using OpenCV and MediaPipe

Real-Time Face Recognition App

- Python app with facial recognition via dlib and OpenCV

AgentZero AI

- Reinforcement learning agent capable of basic decision-making logic

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