

GEOFREY KAMAU

Computer Scientist

Phone: 0790032674 | Email: jeffkamau9497@gmail.com | Nairobi, Kenya

Portfolio: [geofrey94.vercel.app](#) | GitHub: [github.com/Jeff9497](#) | LinkedIn: [linkedin.com/in/geofrey-kamau](#)

PROFESSIONAL SUMMARY

Passionate and versatile Computer Scientist, graduating in 2025, with proven hands-on experience across artificial intelligence, machine learning, software development, cloud computing, data architecture, and network security. Self-driven builder who has independently conceived, developed, and deployed multiple real-world applications — from AI-powered platforms and local model deployment systems to IoT monitoring tools, automation suites, and cybersecurity utilities. Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate. Committed to building innovative, scalable, and impactful technology solutions that solve real problems for people and organisations.

EDUCATION

Bachelor of Science in Computer Science

Muranga University of Technology | August 2025

Relevant Coursework: Computer Networks, Operating Systems, Distributed Systems, Cloud Computing, Database Management, Machine Learning, Software Engineering, Data Structures & Algorithms, Network Security, Computer Hardware & Architecture, Internet of Things

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

Oracle | July 2025

Covers AI foundations, cloud infrastructure fundamentals, machine learning concepts, and enterprise cloud platform management.

TECHNICAL SKILLS

AI & Machine Learning: TensorFlow, Neural Networks, Computer Vision, Natural Language Processing (NLP), Model Deployment, Hugging Face, Edge AI, Predictive Analytics

Software Development: Python, JavaScript, TypeScript, Node.js, HTML5, C#, Bash Scripting, REST APIs, GraphQL

Data & Cloud Architecture: Data Modelling, ETL/ELT Pipelines, Data Warehousing, Oracle Cloud Infrastructure, Docker, Kubernetes, Microservices, Cloud-Native Architecture

Web & App Frameworks: React, Next.js, Flask, Chakra UI, API Development, Responsive Design

Networking & Security: TCP/IP, HTTP/2, QUIC, DNS, DHCP, LAN/WAN, IoT Protocols, Firmware Analysis, Network Security, Reverse Engineering

DevOps & Automation: CI/CD Pipelines, GitHub Actions, DevSecOps, Docker, Kubernetes, Process Automation, Webhook Orchestration

System Administration: Linux (Ubuntu), Windows OS, System Monitoring, Performance Optimisation, Hardware Troubleshooting, Software Configuration

KEY PROJECTS

200Model8-Chat & 200Model8Dev – Multi-Model AI Platform

TypeScript, AI Integration, Real-time Processing, Cloud-Native

- Designed and built advanced AI chat interfaces supporting real-time web search, multi-model AI interaction, and distributed cloud-native deployment.
- Implemented low-latency response systems optimised for concurrent user sessions, applying cloud architecture and performance engineering principles.
- Integrated CI/CD pipelines for continuous delivery, maintaining code quality and system reliability throughout the development lifecycle.

LAX – Local AI eXecution

Python, Linux, Model Deployment, Edge Computing

- Built a fully local AI model deployment system enabling offline inference with GPT-2 and other language models without cloud dependency.
- Designed resource-efficient execution architecture suited to edge and low-bandwidth environments, demonstrating applied AI engineering skills.
- Managed full system configuration, dependency management, and performance tuning across Linux environments.

EvSentry8 & FarMV8ioN – AI Agricultural Monitoring

Python, Computer Vision, Hugging Face, IoT, Edge AI

- Developed AI-powered crop disease detection tools using computer vision and machine learning models deployed at the IoT edge.
- Designed real-time data pipelines for image ingestion, AI inference, and alert generation in resource-constrained field environments.
- Demonstrated practical applications of massive IoT connectivity, edge computing, and AI-driven decision support for agriculture.

Ollama8Web – AI Model Web Interface

Python, Next.js, Chakra UI, REST APIs, Microservices

- Created a modern, responsive web interface for interacting with locally hosted AI models, focusing on clean UX and low-latency API communication.
- Applied microservices architecture principles for modular, maintainable design and scalable deployment.
- Implemented RESTful API integration for seamless client-server communication and real-time model responses.

WhatsApp Automation Suite – ChatBuddy28, Whatsapify, Reminder System

Python, ChatGPT API, Webhooks, Process Automation

- Designed and deployed intelligent chatbots with ChatGPT API integration for automated, end-to-end conversational workflows.
- Built real-time messaging automation with webhook processing and API orchestration, demonstrating production-level automation engineering.
- Developed scalable reminder and notification systems with lifecycle management and post-deployment maintenance.

DataLearn-Hub8 & Job8earch – Learning & AI Job Platform

JavaScript, React, AI Integration, Scalable Frontend

- Built a comprehensive data science learning platform with structured content delivery and professional-grade user experience.
- Developed an AI-powered job matching platform with intelligent recommendation algorithms and responsive React frontend.

D-Link Decryptor 2.0 – Network Security & Firmware Analysis

Cybersecurity, Reverse Engineering, Binary Analysis, Network Security

- Built a firmware analysis utility for D-Link routers that transforms binary files into readable assembly language for security research.

- Demonstrated deep expertise in network hardware architecture, cybersecurity principles, and low-level systems analysis.

AREAS OF EXPERTISE

- **Artificial Intelligence & ML:** Model development, computer vision, NLP, edge AI inference, intelligent automation
- **Software Engineering:** Full-stack development, API design, microservices, clean architecture, version control
- **Data & Cloud:** Data pipeline design, cloud-native architecture, containerisation, enterprise data management
- **Networking & Security:** Network configuration, security analysis, firmware research, IoT connectivity
- **Systems & DevOps:** Linux administration, CI/CD, system monitoring, performance optimisation, process automation

CORE COMPETENCIES

- Independent builder — able to take projects from idea to deployed product
- Strong problem-solving and analytical thinking across hardware and software
- Effective communicator — translates complex technical concepts clearly
- Fast learner and adaptable to new tools, languages, and environments
- Collaborative across technical and non-technical teams
- Committed to writing clean, efficient, and well-documented code
- Proactive, self-motivated, and driven by impact