

EVANCE ODHIAMBO

Full-Stack Software Engineer | AI-Integrated Systems | Machine Learning | Knowledge Graphs & Semantics

Nairobi, Kenya | Open to Remote Opportunities

LinkedIn: linkedin.com/in/evance-o

GitHub: github.com/evancedev

Portfolio: evance-odhiambo.vercel.app

PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 5+ years of experience designing, building, and deploying scalable web applications and data-driven systems. Strong background in backend APIs, frontend interfaces, relational databases, and cloud deployment, with hands-on experience integrating machine learning models and knowledge graph-based systems into production applications. Proven ability to translate complex requirements into robust, maintainable software solutions across education, fintech, and data platforms.

TECHNICAL SKILLS

Frontend

- React, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Streamlit

Backend & APIs

- Python (FastAPI, Flask), Java, RESTful APIs, Authentication & Authorization

Databases & Data Systems

- PostgreSQL, Supabase, SQL, CSV/XML ingestion, Data Modeling

AI / Machine Learning

- Scikit-learn, XGBoost, Feature Engineering, Model Evaluation (ROC-AUC), SMOTE, Streamlit Deployment

Knowledge Graphs & Semantics

- OWL, RDF, SPARQL, Protégé, Ontology Design, Semantic Data Integration

Cloud & Deployment

- Render, Vercel, Firebase, GitHub Actions (CI), Linux

Tools & Practices

- Git, GitHub, Agile/Scrum, System Design, Technical Documentation

Programming Languages

- C#, C, C++, Java, Python, JavaScript (ES6+)
- Object-Oriented Programming (OOP), Data Structures & Algorithms, Multithreading (Java/C++), Memory Management (C/C++)

PROFESSIONAL EXPERIENCE

MWANGAZA AI | MWANGAZA DIGITAL ACADEMY

Founder & Full-Stack Software Engineer / Lead AI Architect

January 2025 – Present / Nairobi, Kenya

- Architecting and developing a full-stack AI-driven platform that aligns educational curricula with real-world labor market demand using knowledge graphs and data-driven models.

- Designing and deploying backend services and REST APIs to support skills data ingestion, analysis, and application-level consumption.
- Building frontend interfaces and dashboards that expose AI-powered insights for training design, learner tracking, and workforce alignment.
- Integrating machine learning components into production systems, including model inference pipelines and decision-support logic.
- Developing the **Mwangaza Digital Academy**, translating research outputs into targeted digital skills training for AI-adjacent roles.
- Implementing a training-to-employment feedback loop where learner outcomes inform continuous system and curriculum improvement.
- Managing end-to-end product development lifecycle from system design to deployment and iteration.

EMOBILIS MOBILE TECHNOLOGY INSTITUTE (AJIRA DIGITAL PROGRAM)

Lead Trainer – Full-Stack & AI Systems

July 2023 – April 2025

- Delivered advanced training in full-stack software development, AI-augmented applications, and data-driven systems to 6,000+ learners.
- Designed applied projects integrating frontend interfaces, backend APIs, databases, and ML components.
- Mentored developers in building production-ready portfolios featuring deployed web and AI-powered applications.
- Contributed to curriculum design for advanced digital skills programs, emphasizing real-world system architecture and deployment.

INTEL COLLEGE

Computer Science Lecturer | Deputy Head of Department

May 2019 – April 2023

- Taught software engineering, web development, databases, and applied computing courses.
- Supervised student projects involving full-stack web applications and data systems.
- Supported curriculum alignment with industry-standard development practices.
- Achieved a 99% student completion and progression rate across degree programs.

SELECTED PROJECTS

LAXCON HARDWARE – E-COMMERCE & BUSINESS MANAGEMENT PLATFORM

Live: <https://laxconhardware.com>

- Designed and developed a full-stack e-commerce and business website using the MERN stack (MongoDB, Express, React, Node.js).
- Implemented RESTful APIs for product management, customer inquiries, and order workflows.
- Integrated third-party APIs to support dynamic content, form handling, and business operations.
- Delivered a responsive, production-ready platform aligned with client branding and business goals.

ALUGLASS AFRICA – CORPORATE WEBSITE & DIGITAL PLATFORM

Live: <https://aluglass-africa.com>

- Built and deployed a full-stack corporate website using the MERN stack, focusing on performance, responsiveness, and scalability.
- Developed backend services and APIs to support content management and customer engagement features.
- Integrated external APIs to enhance functionality and streamline business communication.
- Collaborated with stakeholders to translate business requirements into a maintainable production system.

MULTI-SOURCE DATA INTEGRATION SYSTEM (FULL-STACK)

- Built a production-ready system integrating data from REST APIs, CSV files, and relational databases.
- Backend: Python REST API | Database: PostgreSQL (Supabase).
- Frontend: Streamlit web interface for data exploration and reporting.
- Fully deployed on Render with live API documentation.

CREDIT RISK ASSESSMENT SYSTEM (AI-INTEGRATED WEB APP)

- Developed an end-to-end ML pipeline for loan default prediction using XGBoost.
- Implemented feature engineering, SMOTE for class imbalance, and hyperparameter tuning.
- Achieved 91.67% accuracy and ROC-AUC of 0.9856.
- Deployed as an interactive Streamlit application supporting single and batch predictions.

UNIVERSITY ENROLLMENT KNOWLEDGE GRAPH

- Designed a domain ontology using OWL and RDF to integrate relational, CSV, and XML data sources.
- Modeled students, courses, departments, and enrollments with extensible semantic relationships.
- Enabled cross-source querying via SPARQL, replacing complex relational joins.

EDUCATION

MASTER OF SCIENCE: ARTIFICIAL INTELLIGENCE | ONGOING – 2ND YR | OPEN UNIVERSITY OF KENYA, KONZA, KENYA

BACHELOR OF EDUCATION: TECHNOLOGY EDUCATION - COMPUTING | JUNE 2019 | MOI UNIVERSITY, ELDORET, KENYA

ADDITIONAL INFORMATION

- Strong system-thinking and problem-solving ability.

- Experienced in integrating AI models into user-facing applications.
- Comfortable working across the full software development lifecycle in cross-functional teams.

CERTIFICATIONS

- Software Engineering | ALX (African Leadership Group)
- Data Science Professional | ALX (African Leadership Group)
- AI Agents & Automated Workflows | Udemy
- AI for Business Leaders | Udemy
- Machine Learning Specialization | (Part of MSc AI Coursework)
- AWS Certified Cloud Practitioner | In Progress

REFEREES

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