

CONTACT

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EDUCATION

B.Sc. Computer Technology
JKUAT, Juja — 2024

CERTIFICATIONS

- ▶ Agile / Scrum Fundamentals
- ▶ Git & Version Control
- ▶ REST API Development
- ▶ CompTIA A+ (In Progress)

TECHNICAL SKILLS

- ▶ JavaScript (ES6+) / TypeScript
- ▶ PHP (Laravel)
- ▶ Python (Flask, scripting)
- ▶ React.js / Vue.js
- ▶ RESTful API Design
- ▶ MVC Architecture & SDLC
- ▶ MySQL / PostgreSQL
- ▶ Data Validation & Reporting
- ▶ Debugging & Testing
- ▶ Git & GitHub
- ▶ Linux (Ubuntu) / CLI
- ▶ Postman
- ▶ Basic CI/CD & Deployment
- ▶ Basic Docker

CURRENTLY LEARNING

PyTorch
Transformer Architectures
MLOps & Model Deployment

LANGUAGES

English — Fluent
Swahili — Native

AVAILABILITY

Open to Remote & Local
Full-Time / Contract

RICHARD KABUE KAROKI

SOFTWARE ENGINEER

PROFESSIONAL PROFILE

Software Engineer with 3+ years of experience across the full development lifecycle — design, development, testing, deployment, and production support — for web applications, backend services, and data-driven features. Strong foundation in RESTful APIs, relational databases, and system troubleshooting, complemented by hands-on exposure to computer vision and predictive ML systems. Proven ability to work collaboratively, learn quickly, and ship reliable solutions aligned with business needs.

PROFESSIONAL EXPERIENCE

Software Engineer / Developer 2023 – Present

Freelance — Nairobi, Kenya

- Contribute to the development and support of full-stack software applications, building and integrating RESTful APIs and database-backed features.
- Design relational database schemas with integrity constraints, indexing, and query optimisation for accurate, performant data operations.
- Debug application and system issues across the stack, ensuring stability and reliability in production.
- Apply Python (Pandas, NumPy) for operational data analysis, anomaly detection, and structured reporting.
- Collaborate with cross-functional teams in Agile workflows to implement features aligned with business requirements.
- Produce clear technical documentation covering APIs, system architecture, and deployment changes to support maintainability.

Software Engineer Intern Jun 2022 – Dec 2022

SunTech Business Solutions — Nairobi, Kenya

- Supported backend services and application infrastructure handling live transactional workflows during high-traffic operational events.
- Developed and maintained RESTful API endpoints for system integrations, resolving data inconsistencies to maintain accuracy.
- Optimised SQL queries and database performance to reduce latency under load.
- Participated in production issue debugging, testing, and deployment support, documenting defects and resolutions to improve system quality.

IT Support & Systems Developer Feb 2021 – Dec 2021

Nammy International Travel — Nairobi, Kenya

- Supported development and maintenance of an internal booking and transactional business system.
- Assisted with backend logic, database updates, and UI improvements to boost usability.
- Integrated third-party APIs, ensuring data consistency across booking workflows, and resolved system issues for end users.

Systems & Technical Support Assistant Apr 2018 – Mar 2020

Mutinda's Gaming Hub — Nairobi, Kenya

- Maintained application systems, workstations, and local networks, performing routine diagnostics and preventive maintenance.
- Supported data accuracy, system uptime, and daily operations.

KEY PROJECTS

Booking & Ticketing Management System

Stack: PHP (Laravel) • MySQL • PostgreSQL • React • REST APIs

- Designed and built a full-stack transactional system for bookings, user management, status updates, and reporting — from schema design through production deployment.
- Implemented authentication, role-based access control (RBAC), and data validation logic; performed structured debugging and performance optimisation before go-live.

Court Case Management Application

Stack: Node.js · TypeScript · REST APIs · Relational Database

- Architected a full-stack case management system with REST APIs for case tracking, user authentication, and reporting, focused on modular, maintainable architecture.

Mobile House Recommender System — Final Year Project

Stack: Python · scikit-learn · TensorFlow · React

- Led a team through the full ML lifecycle — problem definition, data collection, feature engineering, model training, and evaluation — achieving 85% prediction accuracy.
- Designed the data preprocessing pipeline and built a React-based visualisation frontend for results.

Operational Reporting & Data Analysis

Stack: Python (Pandas, NumPy)

- Used Python scripts to clean, analyse, and report on operational data, supporting decision-making through structured summaries and trend analysis.

REFERENCES

Dr. Michael Kimwele — Former Director, School of Computing & IT, JKUAT |
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