

# Mungai John Karanja

## Software Developer

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### SUMMARY

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Junior Developer with a strong foundation in Python (Flask and Django) and JavaScript (React), complemented by proficiency in HTML and CSS. Passionate about building dynamic, user-friendly web applications and eager to contribute to innovative projects. Adept at both front-end and back-end development, with a keen interest in continuous learning and professional growth.

### SKILLS

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- **Programming Languages:** Python, JavaScript
- **Frontend Technologies:** HTML, CSS, React
- **Backend Technologies:** Flask, Django, SQLAlchemy
- **Databases:** PostgreSQL, SQLite, SQL
- **Version Control:** Git, GitHub
- **Testing & Debugging:** pytest, Postman
- **API Development:** RESTful APIs, Fetch API
- **Authentication & Security:** Bcrypt, JWT
- **Tools & Libraries:** Flask-Migrate, Flask-CORS, Docker

### PROJECTS

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#### **iReporter App** - <https://ireporter-ke.netlify.app/>

The iReporter app is a powerful platform designed to enable citizens to report incidents of corruption and other societal issues. With a user-friendly interface, the app allows users to create reports, attach evidence through images and videos, and specify geolocations for accuracy. The app features both user and admin dashboards, where users can track the status of their reports, and admins can review and update the status of reported incidents. Built with a Flask API backend and a React frontend, iReporter ensures secure user authentication, robust data handling, and a seamless user experience across devices.

#### **KGGA Membership & Payments System** - <https://volute-kelpie-0d72d6.netlify.app/>

**Full Stack Developer** | Flask, React, PostgreSQL, MPESA API

Built a role-based web platform for the Kenya Girl Guides Association to manage student memberships, payments, schools, and events across the country.

- Developed secure authentication and RBAC for administrators, finance, and guide leaders.
- Integrated MPESA STK Push for automated mobile payments and real-time payment tracking.
- Automated student transitions between age-based units using scheduled backend tasks.
- Designed interactive dashboards with filters and visual reports (Chart.js) for payments and demographics.
- Implemented CRUD operations, form validations, school/student linking, and exportable reports.

#### **Apartment App** - <https://apartmentmanagementapp.netlify.app/>

A comprehensive web application designed to manage apartment properties, tenants, and leases. This app leverages a Flask API backend and a React frontend to deliver seamless CRUD operations for properties, tenants, and leases. Key features include secure user authentication with bcrypt, robust property and tenant management capabilities, lease tracking. The app boasts a responsive design, ensuring a user-friendly experience on both desktop and mobile devices. API integration ensures efficient data handling between the frontend and backend, making property management effortless and efficient. Technologies used in this project include Python, Flask, SQLAlchemy, Flask-Migrate, JavaScript, React, HTML, CSS and Git.

#### **Task Management App** - <https://taskmanagerke.netlify.app/>

A collaborative web application developed to streamline task management. While primarily focusing on the backend,

I contributed to building a robust Flask API to handle all data operations and ensured seamless communication with the frontend. Key features include user authentication, task creation, assignment and progress tracking. My contributions involved setting up the database schema with SQLAlchemy, implementing RESTful API endpoints, and integrating Flask-Migrate for database migrations. The collaborative effort resulted in a responsive and user-friendly interface, enhancing team productivity and task organization. Technologies used in this project include Python, Flask, SQLAlchemy, Flask-Migrate, JavaScript, React, HTML, CSS, and Git.

## EXPERIENCE

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### **IT Attaché | Machakos County Government(Tourism Department)**

February 2023 - June 2023 | Machakos

Worked in the tourism department for four months, gaining valuable skills and experience. Provided technical support by troubleshooting software and hardware issues on computers and updating various software applications. Played a key role in maintaining the department's IT infrastructure, ensuring smooth and efficient operations.

### **Dispatch and IT Intern | Kutuma Kenya Limited**

January 2022 – April 2022 | Nairobi

Assisted in rider management by monitoring timelines and ensuring efficient dispatch operations. Provided technical support to colleagues, troubleshooting and resolving computer-related issues to maintain smooth workflow and productivity

## EDUCATION

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### **Moringa School | Nairobi, Kenya**

#### **Software Engineering**

February 2024 – August 2024

### **Machakos University (MKSU) | Machakos, Kenya**

#### **Bachelor of Science in Mathematics and Computer Science**

2019 – 2023

- Second Class Lower
- Major: Statistics

### **Githumu Boys High School | Murang'a, Kenya**

#### **Kenya Certificate of Secondary Education (KCSE)**

2015 – 2018

## REFEREES

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### **Mercy Cherotich**

Kutuma Kenya Limited

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### **Elizabeth Mutanu**

Machakos County Government

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