

# GITHAIGA KAIRUTHI

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## Summary

As a full-stack developer, I have strong technical and soft skills that enable me to create robust and dynamic web applications. My ability to write clean and easy-to-understand code ensures that my programs are efficient and easy to maintain.

I am skilled at collaborating with others, including designers, project managers, and other developers, to deliver successful projects on time and within budget. My methodical and organized approach to software development enables me to plan and execute projects effectively while meeting deadlines without compromising on quality.

I pay close attention to details and possess strong problem-solving skills that allow me to find solutions to complex problems. My career goal is to continuously improve my skills and expertise in the latest technologies and techniques, while also sharing my knowledge with others and creating amazing websites.

## Skills

**Languages:** Python, Javascript, Typescript.

**Frameworks:** Django and Django Rest Framework, React Native, React.js and Next.js.

**Dev Tools & IDE's:** Docker, Postman, Git, PyCharm, Visual Studio Code.

## Experience

MAY 2019 - SEPTEMBER 2022

**Samis, Nakuru, Kenya** – Full Stack Developer

- Conducted interviews with school administrators to identify key features and functionalities required for the platform
- Designed and developed a School Administration Management Information System using technologies such as Git, Python, Django, Django Rest Framework, and React
- Implemented Git version control system to keep track of code changes and collaborate with other developers
- Used Python and Django to create backend functionalities such as student and staff management, fee management, attendance tracking, and examination management
- Integrated an automated notification system to send alerts to students and parents

- Built the front-end of the platform using React, HTML5, and CSS3 to create an intuitive and responsive user interface
- Automated various repetitive tasks using Python scripts such as generating reports, sending emails, and updating the database
- Implemented a robust security system to ensure data integrity and confidentiality, and a backup system to protect data in case of unforeseen circumstances.

JAN 2018 - MARCH 2019

### **Wasoko, Nairobi, Kenya – Junior Front End Developer**

- Developing and implementing user-friendly interfaces for the fulfillment platform
- Collaborating with the design team to create visually appealing and easy-to-navigate interfaces
- Utilizing modern frontend technologies such as HTML5, CSS3, TypeScript, and React JS
- Creating responsive and dynamic interfaces that can adapt to user needs
- Integrating frontend with backend systems and ensuring smooth functioning
- Participating in code reviews and testing to ensure code quality and functionality
- Debugging code to resolve any issues that arise during development
- Working on new features and improvements based on client and stakeholder feedback
- Keeping up to date with industry trends and new frontend technologies to continuously improve development processes
- Collaborating with other developers and teams to ensure a streamlined and efficient workflow.

## **Education**

SEPTEMBER 2017 - DECEMBER 2021

### **Mount Kenya University, Mombasa, Kenya – Degree**

I studied Business Information Technology, which is a field that combines business management principles with the application of technology to solve business problems. This course covered topics such as database management, software development, project management, and business analysis. By studying Business Information Technology, I gained a unique skill set that allows me to understand both the technical and business aspects of projects, which can be valuable in a variety of industries.

## Projects

SEPTEMBER 2022 - PRESENT

### **KgHomes** – A Rental Management System

KgHomes is a rental management platform created by a real estate enthusiast(me) who was inspired by the need for a comprehensive rental management system that automates the rental process, manages tenants, and handles maintenance requests.

The platform is built using a wide range of technologies, including Redis, Celery, Git, Python, Django, Django Rest Framework, and React. The backend was created using Python and Django, with different functionalities like tenant management, rental agreements, maintenance request management, and rent tracking.

The front end was developed using React, with an intuitive and responsive user interface that allows users to navigate through the platform easily. The platform is still ongoing, and I'm continually adding new features to make it better.

#### **Some of the Tasks included:**

- Created a detailed plan of the features and functionalities required for the platform
- Chose a range of technologies to build the platform, including Redis, Celery, Git, Python, Django, Django Rest Framework, and React.
- Used Redis for caching and handling real-time data to ensure smooth user experience
- Used Celery to perform tasks in the background to prevent any user inconvenience
- Used Git to manage version control, allowing contributors to work on the project simultaneously
- Created different functionalities using Python and Django, including tenant management, rental agreements, maintenance request management, and rent tracking
- Developed a robust API using Django Rest Framework to enable secure communication with the front end
- Developed the front end using React, with an intuitive and responsive user interface that allows users to navigate through the platform easily
- Integrated features like property management, tenant management, and an analytics dashboard that provides insightful data
- Implemented a messaging system that allows tenants to communicate with landlords easily
- Working on adding a payment system that would enable tenants to pay rent online.

MAY 2021 - JULY 2021

## **Custom Rug House – An Ecommerce Platform**

I developed an ecommerce website for a rug-selling enterprise by utilizing Python Django as the backend and React for the frontend. The primary objective of the platform was to provide customers with an easy-to-use interface, offering features such as simple product navigation, secure payment processing, and detailed product information.

For the backend, Django was employed to manage the database, handle payment processing, and user accounts. With React, a responsive and user-friendly interface was developed to enable customers to effortlessly locate and purchase products. The client and their customers were pleased with the website, which helped to improve their online presence and revenue.

### **Some of the Tasks included:**

- **Install and configure Django:** I had to set up Django on the server, configure the project settings, and create a virtual environment to ensure that all the necessary dependencies were installed correctly.
- **Design the database schema:** I designed and created a database schema that could efficiently store and retrieve data related to products, user accounts, and payment transactions.
- **Implement user authentication and authorization:** I developed a user authentication system that enabled users to register, log in, and log out securely. You also had to implement authorization to ensure that users could only access the pages and features that they were authorized to use.
- **Build the product catalog:** I created a product catalog that allowed users to browse and search for products, view product details, and add products to their cart.
- **Integrate payment processing:** Integrated a payment gateway such as PayPal and Mpesa to enable secure payment processing for customers.
- **Develop a responsive UI:** Designed and developed a responsive user interface that looked great on all devices and provided an optimal user experience.
- **Optimize website performance:** I had to optimize the website's performance by implementing caching, compressing static assets, and optimizing the database queries to ensure fast page load times and smooth user experience.