

# GEORGE MWANGI GICHURU

## Nairobi, Kenya

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## PROFESSIONAL SUMMARY

Software Engineer and Entrepreneur specializing in full-stack development with a focus on building scalable rental management solutions. Founder of Nyumbani Rentals, a comprehensive property management platform serving landlords across Kenya. Experienced in designing RESTful APIs, implementing secure payment integrations, and deploying production-ready applications. Passionate about creating technology solutions that solve real-world business problems.

## EXPERIENCE

### Founder & Lead Developer | Nyumbani Rentals

September 2025 – January 2026 | Nairobi, Kenya

Website: [nyumbanirentals.com](https://nyumbanirentals.com)

**Technologies:** Django Rest Framework, React.js, PostgreSQL (Supabase), Mpesa-Daraja API, Redis, JWT, Docker, Vercel

- Founded and built a full-stack SaaS rental management platform from concept to production, currently serving multiple landlords managing 100+ properties across Nairobi
- Architected and developed secure RESTful APIs using Django Rest Framework, handling property listings, tenant management, lease tracking, and automated payment processing
- Integrated Mpesa-Daraja API with STK-push functionality for seamless rent collection, processing KES 100,000+ in monthly transactions and reducing late payments by 60%
- Implemented JWT-based authentication with Redis caching for session management, improving API response times by 50% and supporting concurrent users efficiently
- Designed and developed a responsive React dashboard enabling landlords to monitor rent status, track payment history, manage lease agreements, and communicate with tenants in real-time
- Optimized PostgreSQL database queries and schema design, reducing average API response time by 35% and improving overall system performance
- Deployed scalable infrastructure using Docker containers on Azure, with frontend hosted on Vercel, ensuring 99.5% uptime

- Established CI/CD pipeline with automated testing, achieving 90% code coverage through unit and integration tests, significantly reducing production bugs
- Conducted user research with 15+ landlords to identify pain points, iteratively improving features based on feedback and reducing manual workload by 50%

### **Key Achievements:**

- Successfully transitioned 8 landlords from manual/spreadsheet-based management to the digital platform
- Reduced average rent collection time from 2 weeks to 3 days through automated payment reminders and mobile money integration
- Generated positive cash flow within 6 months of launch through subscription-based revenue model

## **PROJECTS**

### **Job Application Tracker Bot**

**Technologies:** Python, Selenium WebDriver, Pandas, XPath, CSS Selectors

- Developed an intelligent web scraping bot to automate job application tracking from KenyaJob.com, parsing 200+ listings daily
- Implemented robust data extraction using XPath and CSS selectors, achieving 98% accuracy in capturing job details, posting dates, and company information
- Built custom date parsing logic to handle relative timestamps (“2 days ago”), ensuring accurate chronological tracking
- Created filtering algorithms to prioritize relevant software engineering positions, reducing manual review time by 80%
- Designed CSV export functionality using Pandas for data analysis and application management
- Integrated automated error handling with screenshot capture for debugging, improving system reliability

## **EDUCATION**

### **United States International University – Africa**

*Bachelor of Science in Software Engineering*

Expected Graduation: 2028 | Nairobi, Kenya

### **Relevant Coursework:**

Data Structures & Algorithms, Database Systems, Web Development, Software Engineering Principles, Object-Oriented Programming, Information Systems, Probability & Statistics

**Current GPA:** 3.0

## **CERTIFICATIONS & ACHIEVEMENTS**

### **Young Web Developer Program | Codingal (Online)**

*December 2020 – May 2022*

- Completed 18-month intensive web development program covering HTML5, CSS3, JavaScript, and responsive design principles
- Earned “Coding Star” recognition for ranking in top 5% of participants based on project quality and problem-solving performance
- Built 10+ interactive web projects demonstrating proficiency in front-end development and UI/UX design
- Collaborated in peer coding challenges, developing strong debugging and teamwork skills

## **TECHNICAL SKILLS**

**Languages:** Python, JavaScript, C++, Java , SQL, HTML5, CSS3

**Frameworks & Libraries:** Django Rest Framework, React.js, Bootstrap, Tailwind CSS

**Databases:** PostgreSQL, Supabase, SQLite, Redis (caching)

**Tools & Platforms:** Git/GitHub, Docker, Postman, VS Code, Azure Cloud, Vercel

**Payment Integration:** Mpesa-Daraja API, Stripe (familiar)

**Core Competencies:** RESTful API Design, Database Optimization, Authentication & Authorization, Web Scraping, Automated Testing, CI/CD Pipelines, Agile Development

## **ADDITIONAL INFORMATION**

**Languages:** English (Fluent), Swahili (Native)

**Interests:** Open-source contribution, PropTech innovation, financial inclusion through mobile money, entrepreneurship, Graphics development

**Availability:** Open to internships, part-time remote opportunities, and contract projects