Randy Kipkurui

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SUMMARY

Versatile Full Stack Developer with expertise in JavaScript, Ruby on Rails, and Python. Passionate about data analytics, machine learning, and quantum computing. Skilled in building scalable web applications and crafting intuitive data visualizations to derive insights. Experienced in developing interactive analytical tools, integrating Power BI dashboards, and optimizing data workflows. Holds a CCNA certification, demonstrating a solid foundation in networking. Seeking opportunities to apply problem-solving, adaptability, and innovation to transformative projects.

PROJECTS

Nahla Naturals – *Next.js, Sanity CMS, E-Commerce*

- Built a fully responsive e-commerce website for seamless product showcasing and sales.
- Integrated Sanity CMS for dynamic content management, enhancing user experience and platform scalability.
- Developed a user-friendly shopping experience with an optimized checkout process and mobile responsiveness.

Auctioneers Web Platform – *React, Ruby on Rails, Online Auction System*

- Developed a dynamic auction website where users can engage in real-time bidding while sellers set their desired prices.
- Engineered a robust backend using Ruby on Rails, ensuring seamless data deployment, system stability, and efficient data transfer.
- Integrated intricate business logic to support competitive bidding, secure transactions, and transparent auction processes.
- Enhanced user engagement through real-time updates and a streamlined auction workflow, delivering a responsive and intuitive platform.

Peperuka Local Vendors – *ReactJS, Ruby on Rails, E-Commerce*

- Built a full-stack web platform that connects local vendors with customers, supporting the growth of community-based businesses.
- Combined the scalability of Ruby on Rails with the dynamic UI of ReactJS to create a responsive, high-performance platform.
- Designed an intuitive interface to showcase diverse local products and services, enhancing discoverability and user engagement.
- Developed key features such as vendor profiles, product catalogs, and secure online transactions, ensuring a seamless shopping experience.
- Currently scaling the platform to support additional urban areas, promoting local commerce, and expanding market reach.

[Destination Bliss](#) – FlutterFlow, Travel Discovery App

- Created an interactive travel app that allows users to explore and bookmark their favourite destinations.
- Utilized FlutterFlow's low-code platform to accelerate development while delivering a visually stunning and user-friendly interface.
- Integrated dynamic search and filtering options, empowering users to discover travel destinations tailored to their preferences.
- Enhanced user experience with responsive design, smooth navigation, and seamless performance across devices.

EXPERIENCE

Junior Software Developer   Apr 2024 - Oct 2024
Ergo Quantum, Rugby, England

- Developed an interactive persistent homology visualization tool, reducing analysis time and enhancing multi-dimensional insights.
- Created advanced SHAP value visualizations to improve the interpretability of machine learning models.
- Integrated Power BI dashboards to track performance metrics, enabling company-wide access to critical insights.
- Streamlined visualization workflows, optimizing data retrieval and usability.

Key Achievements:

- Reduced analysis time by 40% through efficient visualization tools.
- Successfully transitioned Python-based visualizations to Power BI, improving scalability and adoption.

Software Engineer   Aug 2023 - Jan 2024
iTalanta, Ngong Road, Nairobi

- Developed responsive and visually engaging websites using AngularJS, enhancing user experience and platform scalability.
- Refactored legacy code to eliminate technical debt, improving system efficiency, maintainability, and performance.
- Designed intuitive, user-centered interfaces aligned with modern UX principles, ensuring seamless navigation and cross-device compatibility.
- Collaborated with cross-functional teams to deliver high-quality, aesthetically pleasing web applications, aligning with industry design trends.
- Maintained clean, efficient code architecture and adhered to coding best practices, ensuring long-term system stability and scalability.

Key Achievements:

- Enhanced website performance and responsiveness, reducing page load time by 20%.
- Successfully delivered multiple complex web projects, improving client engagement and user retention.

Junior IT Officer   May 2022 - Aug 2022
KeNHA, Industrial Area, Nairobi

- Optimized workflow efficiency across engineering departments by configuring essential software and fine-tuning laptops and programs.
- Conducted comprehensive IT asset inventories, reducing electronic waste and minimizing new equipment purchases.
- Delivered prompt IT troubleshooting and support, ensuring minimal downtime and uninterrupted office operations.
- Ensured seamless device connectivity to the company network, enhancing communication and data exchange.
- Supported staff in using the company's ERP system, improving resource utilization and productivity.

Key Achievements:

- Reduced troubleshooting wait times by 30%, accelerating issue resolution and boosting productivity.
- Minimized network downtimes, ensuring consistent internet access and improving operational efficiency.

IT Intern and Medical Researcher   Jul 2019 - Aug 2019
Daktari Msafiri, 3rd Parklands Avenue, Nairobi

- Developed customized IT solutions to optimize company operations, improving efficiency and productivity.
- Conducted in-depth research on **Autism Spectrum Disorder (ASD)**, contributing to tailored care solutions for patients.
- Enhanced the company's website in collaboration with the software developer, improving online presence and user experience.
- Upgraded email communication systems with modern enhancements, improving engagement and brand perception.

Key Achievements:

- Boosted website performance and user engagement, strengthening the company's digital presence.
- Improved internal communication efficiency, leading to better collaboration and client interactions.

SKILLS

- **Proficient:** JavaScript (React), Ruby on Rails, Python, SQL, Power BI
- **Intermediate:** Azure ML, Data Science, Networking (CCNA),
- **Basic:** Machine Learning, DevOps, Flutter

EDUCATION

Software Engineering Certification - Software Engineering   Nov 2022 - Jun 2023
Moringa School, Nairobi
- Focused on full-stack development with JavaScript (React) and Ruby on Rails.
- Led real-world projects, improving leadership and collaboration skills.

Bachelor of Science in Computer Science   Sep 2018 - Dec 2022
KCA University, Nairobi
- Specialized in networking principles, MySQL database programming, and CCNA certification.
- Developed strong programming skills through practical projects and advanced coursework in networking concepts.

TECHNICAL CERTIFICATIONS

Cisco Certified Network Associate (CCNA)   2022
Issued by Cisco - HCDHJ8SGQ3B41HKC

- Mastered networking fundamentals, including routing, switching, network security, and troubleshooting.
- Proven ability to design, implement, and manage enterprise networks using Cisco technologies.
- Certified by Cisco Systems, a globally recognized leader in networking solutions.

REFERENCES

Okello Ketley | Ergo Quantum (Senior Software Developer)
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Emilie Lazari | KeNHA Nairobi Region (Junior IT Officer)
elgatwiri@gmail.com

Howard Mnengwa Mkongo | Hasibu Technologies (Head of Product)
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