

Diana Wangui

Software Developer

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Portfolio: <https://dianawangui.vercel.app/>

Profile

I am a Software Engineer, IT Trainer, and Marketing Professional with a Bachelor's degree in Computer Science and an ALX Software Engineering Certification. I am experienced in Python (Django and Flask frameworks), JavaScript (React and Next.js), PostgreSQL, and Tailwind CSS, among other technologies.

I am passionate about leveraging technology to solve real-world problems and excel in collaborative environments. My experience spans software development, IT training, and marketing, where I provide support during the marketing process. I've work closely with the marketing teams to understand customer requirements and propose appropriate solutions.

Additionally, I have experience in marketing and business development, making me well-equipped to bridge the gap between technical and sales functions. I am committed to continuous learning, staying updated with industry trends, and delivering innovative and scalable solutions.

Professional Experience

Full-stack Developer Volunteer | M- TREAT

Jan 2025 – Present

- Working on both front-end and back-end development projects, utilizing React, React Redux, and Tailwind CSS for responsive and user-friendly interfaces.
- Developing secure and scalable applications using Django for the back-end, with PostgreSQL for efficient data management.
- Integrating RESTful APIs to enable seamless communication between front-end and back-end systems.
- Leveraging Canva for UI/ UX design, ensuring visually appealing and intuitive user experiences.
- Collaborating with other developers through virtual meetings, code reviews, and Agile workflows to enhance teamwork and project efficiency.

- Exploring and implementing best practices in software development, including performance optimization, security enhancements

ICT Trainer | Equip Africa Institute

2022 - Present

- Delivered training on programming languages including C, HTML, CSS, and JavaScript.
- Developed and maintained instructional materials for both beginners and advanced learners.
- Guided students in developing real world projects, emphasizing coding best practices and troubleshooting.
- Taught database management concepts using sql and Microsoft Access.
- Provided IT support for hardware and software issues, ensuring operational efficiency.

Software Developer (Freelance)

2023 - Present

- Designed, built, and iterated on innovative web solutions using Python (Django/ Flask) for backed and ReactJS and NextJS for the front-end.
- Developed and integrated RESTful APIs, improving application functionality and scalability.
- Enhanced application performance by implementing caching strategies using Redis and database optimization techniques.
- Monitored and optimized website performance using Datadog, identifying bottlenecks and improving site reliability and response times.
- Conducted code reviews and debugging to maintain high-quality standards and ensure seamless functionality.
- Collaborated with team members and clients in Agile workflows to deliver projects on time.
- Explored and implemented emerging technologies such as CI/ CD pipelines and software testing practices.
- Deployed projects to cloud platforms like Vercel and Digital Ocean utilizing services for hosting and data management.
- Designed intuitive user interfaces using Tailwind CSS and ensured responsiveness across devices.

Marketing/Admissions Intern | Equip Africa Institute

2018-2021

- Assisted in marketing the Institute to prospective students through campus tours and community events
- Processed applications, verified documents, and maintained accurate student records
- Provided information and guidance to applicants regarding program offerings and requirements
- Evaluated applications based on established admissions criteria
- Coordinated admissions events, orientation sessions, and registration activities
- Prepared weekly and monthly admissions reports for management review
- Collaborated with various departments to ensure smooth student on-boarding
- Participated in student recruitment drives at local high schools and community centers
- Maintained the admissions database and generated statistical reports on enrollment trends
- Assisted with student inquiries and provided support throughout the application process

Key Projects

Leaf Life – Kitchen Garden Manager

- Developed a comprehensive web application that empowers users to manage their kitchen gardens effectively by tracking garden beds, crops, and harvest schedules.
- Implemented user-friendly features for adding and organizing crops, monitoring growth, and scheduling harvests.
- Integrated a responsive design to ensure usability across all devices.
- **Technologies:** React, Django, PostgreSQL, Tailwind CSS.

Epermit – Online Permit Generator

- Designed and implemented a streamlined system that enables users to apply for and manage permits online, eliminating paper work and reducing processing time.
- Integrated features for secure user authentication, for multiple submissions, and real-time tracking of permit status.
- Emphasized data security and scalability for high user traffic.
- **Technologies:** React, Flask, JQuery, JWT.

Makao Pro – Real Estate WebApp

- Built a robust web application for listing, renting, and buying properties, providing an intuitive platform for real estate transactions.
- Developed features for advanced property search, including location-based filters, price ranges, and property types.
- Integrated interactive property views and a user dashboard for managing listings and inquiries.
- Focused on seamless user experience and optimized application performance.
- **Technologies:** React, Django, PostgreSQL, Tailwind CSS.

Technical Skills

- **Programming:** Python, JavaScript, HTML, CSS, SQL.
- **Frame works:** Django, Flask, React.
- **Tools:** Git, Tailwind CSS, Visual Studio Code, Redis.
- **Databases:** PostgreSQL, MongoDB, SQL, Microsoft Access.
- **Cloud Platforms:** AWS (basic exposure), Digital Ocean and Vercel
- **Version Control:** Proficient in Git workflows.
- **Agile Development:** Collaborative experience with Agile workflows.

Education

Certificate in Software Engineering

ALX Africa — 2024

Education BSc in Computer Science

Karatina University — 2021

KCSE

Muthiga Girls High School — 2016

References

Available upon request.