NANJALA LYDIA WASILWA

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https://github.com/Lydia-Wasilwa | https://lw-portfoliowebsite.netlify.app/

PROFFESIONAL SUMMARY

A passionate Software Developer with a strong background in web development, backend programming, and database management. Skilled in building efficient, user-focused applications that solve real world problems and enhance digital experiences.

Proficient in HTML, CSS, JavaScript, PHP, MySQL, Node.js, and Express.js, with ongoing experience expanding into modern frameworks and tools across the MERN stack. I prioritize clean code, responsive design, and seamless functionality in every project I develop.

Beyond coding, I'm deeply interested in cybersecurity and system optimization, enabling me to create applications that are not only powerful but also secure and reliable. I thrive in collaborative environments, continuously learning and improving my technical and creative problem-solving skills.

EDUCATION

KCA University, Nairobi   Sep 2021- Nov 2025
Bachelor of Science in Information Security and Forensics.

PROJECTS

Patient Data Management System

Technologies: HTML, CSS, JavaScript, PHP, MySQL

- Designed and developed a full-stack web application for managing patient records, test requests, and prescriptions.
- Implemented a role-based access system for Admin, Doctors and Patients.
- Integrated features for create, read, update, delete and secure access control using PHP and MySQL.
- Enhanced user experience with dynamic content switching using JavaScript.
- Designed a responsive UI and optimized backend queries for fast data retrieval.
- Developed a dashboard interface allowing doctors to manage appointments, records, and prescriptions.

E-commerce REST API

Technologies: Node.js, Express.js, MongoDB

- Built a RESTful API with full CRUD operations for managing product data.
- Implemented custom middleware for logging, error handling, and authentication simulation.
- Deployed and tested API endpoints using Postman.

TECHNICAL SKILLS

- **Programming Languages:** HTML5, CSS3, JavaScript, Python, PHP
- **Frameworks & Libraries:** Node.js, Express.js, React (basic), Bootstrap
- **Databases:** MySQL, MongoDB, phpMyAdmin
- **Tools & Platforms:** Git, GitHub, VS Code, Postman, Netlify, XAMPP
- **Special Interests:** Cybersecurity, API Integration, System Optimization

SOFT SKILLS

- Attention to details.
- Strong analytical thinking and problem-solving skills.
- Clear written and verbal communication.
- Adaptable, quick learner, and responsible with sensitive information.
- Team-oriented and open to feedback.

ACHIEVEMENTS

- Currently taking the Software Development Program with Power Learn Project (PLP), gaining hands-on experience in full-stack web development, project collaboration, and agile methodologies.
- Successfully deployed and maintained multiple web applications on Netlify and localhost servers.
- Participated in various hackathons (i.e Chai Hackathon) where I was able to integrate my software development skills together with AI to solve various solutions.
- Developed a solid understanding of both frontend and backend architectures, improving project scalability and maintainability.

REFERENCES

Available upon request.