

LEON MUYESU

Full-Stack Software Developer & System Designer

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[GitHub](#) · [LinkedIn](#) · [Portfolio](#)

PROFESSIONAL SUMMARY

Full-stack developer with 2+ years of experience building scalable web applications and data-driven solutions. Delivered measurable impact across healthcare and climate sectors — reducing operational inefficiencies by up to 40%, accelerating developer onboarding by 25%, and achieving 95%+ user satisfaction. Proficient in React, Node.js, Django, and Python across the full development lifecycle. Passionate about translating complex requirements into elegant, high-performance systems that drive real business value.

TECHNICAL SKILLS

Frontend	React, SvelteKit, Vue.js, HTML5, CSS3, JavaScript (ES6+), D3.js, Responsive Design, UI/UX
Backend	Node.js, Express, Django, Python, RESTful APIs, Authentication & Authorization
Database	PostgreSQL, MySQL, Database Design & Query Optimisation
DevOps	Git, GitHub, Docker, CI/CD Pipelines, Agile/Scrum, Technical Documentation
Competencies	Full-Stack Architecture, System Design, Data Analysis, Software Testing, Team Leadership

PROFESSIONAL EXPERIENCE

Software Development Intern | **Dockonnect** | May 2024 – Jul 2024 | Remote, Nairobi

- Engineered UI/UX components for a hospital management system used across 10+ healthcare facilities, cutting new-user onboarding time by 15% through redesigned information architecture and intuitive workflows.
- Streamlined healthcare data collection and reporting pipelines across multiple hospitals, improving data accuracy and reducing manual reconciliation effort for clinical staff.
- Authored comprehensive technical documentation adopted as the organisation's standard reference, reducing developer onboarding time and cutting support tickets by 25%.
- Delivered features on schedule in cross-functional Agile/Scrum sprints, collaborating directly with clinical stakeholders to align software behaviour with real-world workflows.

Research & Development Intern | **Pan African Climate Justice Alliance (PACJA)** | May 2023 – Jul 2023 | On-site, Nairobi

- Conducted environmental impact research that improved data accuracy by 30%, directly informing PACJA's policy advocacy campaigns and stakeholder recommendations.
- Co-developed a climate data visualisation web prototype enabling stakeholders to interpret complex environmental datasets 40% faster, reducing reliance on manual reporting.
- Processed and validated large datasets using Python, enforcing data integrity pipelines critical to evidence-based climate decision-making.

KEY PROJECTS

jobKonekt — Full-Stack Skills Marketplace — *React · Node.js · Express · PostgreSQL*

- ▶ Architected and deployed a platform connecting tradespeople (plumbers, electricians, carpenters, janitors) with clients, reducing average job-search time by 40% through smart matching algorithms.
- ▶ Implemented secure JWT-based authentication, real-time job-matching logic, and payment-gateway integration with full end-to-end testing coverage.
- ▶ Designed responsive UI/UX achieving a 95% user satisfaction rate; optimised PostgreSQL queries to maintain sub-2s response times under concurrent load.

Hockey K.E — Sports Analytics Dashboard — *React · Node.js · PostgreSQL · D3.js*

- ▶ Built a performance-tracking dashboard for 15+ Kenyan grassroots hockey teams, integrating D3.js visualisations that let coaches analyse player statistics and game trends 60% faster.
- ▶ Deployed scalable backend infrastructure supporting concurrent users with consistent <2s load times; designed database schema to support multi-team season tracking.

Team-Todo — Team Task Management App — *Django 5 · Python · PostgreSQL · Bootstrap 5 · Chart.js · Full-Calendar*

- ▶ Built a production-ready Django application for team task management with role-based access control across three tiers: Admin, Team Leader, and Member — enforcing permission boundaries at every layer.
- ▶ Implemented feature-rich dashboards with Chart.js analytics, task CRUD, real-time notifications, deadline reminders via Full-Calendar, and search/export functionality for operational reporting.
- ▶ Designed a normalised PostgreSQL schema to support multi-team workflows, ensuring data integrity and query efficiency across concurrent users.

AI Query Interface — LLM-Powered Web App — *FastAPI · Python · Next.js · TypeScript · TailwindCSS · Google Gemini API*

- ▶ Engineered a full-stack application delivering an intuitive interface for AI-powered queries, integrating Google Gemini LLM via a FastAPI backend with structured prompt handling and streaming support.
- ▶ Built a responsive Next.js frontend in TypeScript with TailwindCSS, rendering real-time formatted AI responses with smooth UX and minimal latency.
- ▶ Architected a clean API contract between frontend and backend, enabling seamless LLM model swaps and straightforward feature extension.

Personal Portfolio Website — *React · Vue.js · Vite*

- ▶ Built and deployed a responsive portfolio achieving a 95+ Google Lighthouse performance score; implemented dynamic content management and a contact form with server-side email integration.

EDUCATION

BSc Computer Science | Multimedia University of Kenya | *Graduated 2025 | Second Class (Upper Division)*

Relevant coursework: Data Structures & Algorithms, Web Development, Database Management, OOP, Software Engineering, Operating Systems.

Kenya Certificate of Secondary Education (KCSE) | The Nairobi School | *2017-2021 | Grade: A-(minus)*

REFERENCES

Available on request.