

MOSES MBUGUA MUIGAI

📍 Nairobi, Kenya 📞 +254 758 193 688 ✉️ mbuguam323@gmail.com
[GitHub](#) | [LinkedIn](#) | [Portfolio](#) |

PROFESSIONAL SUMMARY

Results-driven Software Engineer with experience designing and delivering scalable web and mobile applications within banking, healthcare, and nonprofit environments. Strong expertise in Laravel, REST API development, system optimization, and payment integrations. Proven ability to automate manual processes, optimize system performance, and contribute to secure, enterprise-grade solutions. Continuously expanding into cloud engineering and DevOps practices.

PROFESSIONAL EXPERIENCE

Ecobank Kenya

Software Developer | Apr 2025 – Present

- Reduced manual processing time by 70% by automating critical internal banking workflows, cutting human error rates by 98%.
- Improved database performance by implementing optimized indexing and refining SQL queries, reducing average query execution time by 65% (from 1.4 seconds to 0.5 seconds) and increasing overall system responsiveness by 40%, resulting in faster data retrieval and enhanced user experience across applications
- Enhanced API response time by 35% through intelligent caching strategies, improving system throughput by 40% under high usage conditions.
- Built and deployed a Digital Lending Scorecard system, reducing loan decision-making turnaround time by 45% and accelerating internal credit evaluation processes from 2 days to under 5 minutes.

Creatives Garage (NGO)

Web & Mobile Application Developer | May 2024 – Apr 2025

- Reduced website load time from 982ms to 102ms ($\approx 89\%$ performance improvement) through frontend and backend optimization.
- Led end-to-end development and deployment of three production-ready web and mobile applications used by 600+ active users.
- Delivered a Kotlin-based Android game that achieved 200+ downloads within 24 hours of launch.

Kenyatta University Teaching, Referral & Research Hospital (KUTRRH)

Web Application Developer (Attachment) | Jan 2023 – Apr 2023

- Co-developed and deployed a Laravel-based nurse internship scheduling system serving a large healthcare institution, automating scheduling for 300+ interns and reducing manual allocation effort by 60%.
- Designed and implemented a round-robin allocation algorithm that reduced ward overload incidents by 40% and improved intern distribution efficiency across wards.

Palla Credit Limited

Business Developer Intern | Jan 2024 – Mar 2024

- Identified automation opportunities that reduced dependency on manual operational workflows.
- Proposed digital process improvements aimed at increasing efficiency and reducing operational bottlenecks.

CORE TECHNICAL SKILLS

Backend & APIs

PHP (Laravel), Node.js, Django, RESTful APIs, Authentication & RBAC, Go
Third-party integrations (M-Pesa, banking APIs)

Frontend

HTML, CSS, JavaScript, React.js, TypeScript, Flutter (Dart)

Databases & Systems

MySQL, PostgreSQL, MongoDB, SupaBase, NoSQL, Database design & optimization.

DevOps & Tools

Git, Linux basics, Docker, CI/CD fundamentals.

Other Technologies

Kotlin, Firebase, Spring Boot (exposure), AWS Cloud Foundations

EDUCATION

Strathmore University | 2020 – 2024

Bachelor of Business Information Technology (BBIT)

CERTIFICATIONS

- AWS Cloud Foundations
- Data Protection Certification
- Cisco Cybersecurity Certification