

Moses Mbugua Muigai

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

PROFESSIONAL SUMMARY

Full Stack Software Engineer with 3+ years of experience delivering high-impact web and mobile applications across banking, healthcare, and nonprofit sectors. Currently at Ecobank Kenya, where work includes automating critical workflows saving KES 1.5M+ in system costs, cutting loan decision times from 2 days to under 5 minutes, and reducing query execution times by 65%. Proven track record shipping production systems used by thousands of users, with deep expertise in Laravel, REST APIs, payment integrations, and database optimization.

PROFESSIONAL EXPERIENCE

Ecobank Kenya

Software Developer

Apr 2025 – Present

- Automated critical internal banking workflows, reducing manual processing time by 70% and cutting human error rates by 98%.
- Optimized database performance through indexing improvements and SQL query refinement, reducing average query execution time by 65% (from 1.4s to 0.5s) and boosting overall system responsiveness by 40%.
- Built and deployed a Smart Statement Analyzer for bank and salary statements, saving KES 1.5M in system costs and KES 400K annually in maintenance, while cutting analysis turnaround time by over 95% (from days to minute).
- Developed a Digital Lending Scorecard system that reduced loan decision turnaround by 45%, compressing credit evaluation from 2 days to under 5 minutes.
- Collaborated in agile sprint cycles participating in stand-ups, sprint planning, and code reviews, to ship features iteratively alongside a cross-functional team.

Creatives Garage (NGO)

Web & Mobile Application Developer

May 2024 – Apr 2025

- Slashed website load time from 982ms to 102ms, an 89% improvement through targeted frontend and backend optimizations.
- Led end-to-end development and deployment of three production-ready web and mobile applications collectively serving 600+ active users.
- Built a Kotlin-based Android game that hit 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 that automated ward assignments for 300+ interns, reducing manual allocation effort by 60%.
- Designed a round-robin allocation algorithm that cut ward overload incidents by 40% and significantly improved intern distribution across departments.

Palla Credit Limited

Business Developer Intern

Jan 2024 – Mar 2024

- Mapped operational workflows to identify automation gaps and produced a prioritised set of digital improvement proposals adopted for review by the operations team.

CORE TECHNICAL SKILLS

Backend & APIs: PHP (Laravel), Node.js, Django, Go, RESTful APIs, GraphQL, JWT & OAuth authentication M-Pesa & banking API integrations

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

Databases: MySQL, PostgreSQL, MongoDB, Supabase — including schema design & query optimisation

DevOps & Tools: Git, Docker, Linux, CI/CD (GitHub Actions), Agile/Scrum

Other: Kotlin, Firebase, Spring Boot, C#, Swift, AWS Cloud Foundations, PHPUnit,

EDUCATION

Strathmore University

2020 – 2024

Bachelor of Business Information Technology (BBIT)

CERTIFICATIONS

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