

## Contact

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muthamastphn (LinkedIn)

## Top Skills

Technical Leadership

Quality Assurance

React

# Stephen Muthama

SDET | Automation Framework Architect | Solution-Oriented Leader

Enhancing User Satisfaction and Software Quality

Nairobi County, Kenya

## Summary

Hello there! I'm Stephen.

I am a Software Engineer in Test (SET) Architect with six years of experience designing and implementing reliable automation frameworks. I specialize in modern QA methodologies and tools, including Cypress, Playwright, Appium, and Detox, to deliver efficient and scalable automation for both web and mobile applications. I have also built and optimized CI/CD pipelines using Jenkins, GitHub Actions, and GitLab CI, which contribute to faster and more reliable release cycles.

With three years of backend development experience, I possess a solid technical foundation that allows me to bridge quality engineering with development. This combination helps in creating efficient, high-quality software solutions that enhance robustness and ensure a seamless user experience.

### **\*\*Specialties\*\***

- QA Software Solutions Architecture
- QA Systems Design and Development

Let's connect and discuss how we can collaborate to build scalable, quality-driven solutions together!

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## Experience

Sendwave (International Remittance)

3 years 11 months

Senior Software Engineer in Test

February 2023 - October 2025 (2 years 9 months)

Nairobi County, Kenya

Play a crucial role in ensuring the quality and readiness of features before release by working closely with engineers and product managers, leveraging automation and manual testing to drive high-quality software delivery.

#### Key Achievements:

- ✓# Architected a Scalable Mobile & API Automation Framework – Designed a robust test automation framework supporting mobile and API testing, growing to 300+ test cases per mobile client and enabling seamless collaboration among a 10-member QA team.
- ✓# Accelerated Release Cycles & Efficiency – Worked cross-functionally to implement quality roadmaps, optimizing release processes and reducing release cycles from 1 month to a 2-week cadence.
- ✓# Reduced Hotfixes by 60% – Strengthened test automation coverage and reliability, reducing post-release defects and minimizing the need for hotfixes.
- ✓# Cut Production Bugs by 75% – Continuously analyzed and implemented testing best practices, refining frameworks and workflows to enhance software quality and stability.
- ✓# Optimized Defect Management – Improved bug tracking and prioritization by priority, severity, and resolution time, enhancing issue resolution.
- ✓# Optimized CI/CD & Automation Reliability – Played a key role in migrating CI/CD pipelines from CircleCI to GitHub Actions, streamlining automated test execution and increasing framework reliability to 99.9%.
- ✓# Enhanced Performance & Load Testing – Implemented Locust for performance and load testing, successfully identifying bottlenecks, enabling API optimization, and ensuring the system could handle 2x expected user traffic without degradation.

#### Tech Stack & Skills:

Python | Appium | Pytest-BDD | API Testing | CI/CD (GitHub Actions, CircleCI)  
Test Automation Frameworks | Page Object Model (POM) | Performance Optimization  
AI-powered Test Strategies | Multi-App Testing | Mobile, Web, API Automation  
JIRA | TestCaseLab | LambdaTest | Defect Management | Test Case Design | Quality Data Analysis

Software Development Engineer in Test  
December 2021 - February 2023 (1 year 3 months)  
Nairobi County, Kenya

Responsible for designing and implementing scalable test automation frameworks to ensure seamless software delivery across multiple platforms.

By developing and maintaining automation strategies, I enhanced efficiency, reduced test execution time, and improved test coverage.

## Bring Global

### Software Development Engineer in Test

November 2020 - December 2021 (1 year 2 months)

Nairobi, Kenya

Led test case design, generation, and management and enhanced test efficiency, coverage, and stability, reducing critical production defects and accelerating release cycles.

#### Key Achievements:

- ✓# Test Case Design & Management – Led the design, generation, and management of test cases, ensuring comprehensive coverage and maintaining up-to-date documentation to support both manual and automated testing processes.
- ✓# Enhanced Test Efficiency & Coverage – Developed a hybrid testing approach, combining automation and manual feature testing, increasing test coverage by 80% and reducing test execution time by 40%.
- ✓# Optimized Banking App Stability – Strengthened feature validation and regression testing, reducing critical defects in production by 60% and improving overall application stability.
- ✓# Collaborated to Build a Scalable Test Automation Framework – Designed and implemented a data-driven, cross-platform automation framework for a Tier-1 banking application on mobile and web, ensuring efficient automated and manual regression testing.

## Attune

### Software Development Engineer in Test

January 2020 - December 2021 (2 years)

New York, United States

#### Key Achievements:

- ✓# Designed a Comprehensive Test Strategy – Collaborated in creating and implementing a robust test strategy that focused on test automation, test coverage, and CI/CD integration using Docker and GitLab CI.
- ✓# Enhanced Automation and Test Coverage – Played a key role in improving test coverage and automation efficiency, contributing to the faster identification and resolution of defects.

✓# Optimized CI/CD Integration – Streamlined CI/CD workflows with Docker and GitLab CI, enabling more reliable and consistent test execution throughout the development lifecycle.

✓# Fostered a Culture of Quality Assurance – Drove a culture of quality assurance and continuous improvement across teams, ensuring high standards and better collaboration between development and QA.

## GitPrime

### Software Engineer

July 2019 - December 2019 (6 months)

Durango, Colorado, United States

Analyzed backend performance and scalability, identifying bottlenecks, and implementing solutions to optimize system efficiency and ensure high reliability.

## Andela

### Software Engineer

April 2017 - June 2019 (2 years 3 months)

Nairobi, Kenya

Collaborated in designing and developing a Sacco Banking ERP system to automate key financial operations and reporting for enhanced operational efficiency and real-time insights.

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## Education

### University of Nairobi

Bachelor of Science - BS, Computer Science