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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!

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.

Education

University of Nairobi

Bachelor of Science - BS, Computer Science