Sandeep Sethi

Test Automation Architect & QA Leader | 15+ Years expertise in Software Testing and QA Solutions

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PROFILE SUMMARY

Seasoned **QA and Test Automation Specialist** with over 15 years of experience delivering **robust, scalable testing solutions across web, mobile, and enterprise platforms**. Adept in architecting **modern automation frameworks using Playwright (TypeScript), Selenium (Java), REST Assured,** and integrating **CI/CD pipelines** with **Docker, Jenkins, AWS, and GitHub.** Proven track record of driving quality engineering transformation through **GenAI-powered solutions, AI-assisted testing**, and accessibility compliance. Successfully led and **mentored cross-functional QA teams**, enhancing automation coverage, coding standards, and test efficiency across global product lines. Recipient of multiple industry certifications including ISTQB, AWS Cloud Practitioner, and HP Functional Testing Specialist.

CORE COMPETENCIES

SDLC/STLC| Quality Assurance (QA) | Automation/Manual Testing | Test Planning | Test Estimation | Test Automation Strategy | Defect Management | Agile Testing | CI/CD Integration | Framework Development | Agentic AI-assisted Testing | Team Leadership | Stakeholder Communication | Training & Development | Process Improvement | Metrics Reporting | TDD (Test Driven Development) | Cross-Functional Collaboration

TECHNICAL SKILLS

Playwright with Typescript | Selenium WebDriver using Java | Agentic AI-assisted testing | MCP | Autogen | GitHub Copilot | ChatGPT | Gen AI | Accessibility Testing using Deque Axe | Automated Visual Regression Testing | Docker | AWS | Jenkins | Git | SQL | Cucumber | Appium | TestNG | Maven | Postman | Rest Assured | Sauce labs

WORK EXPERIENCE

Fidelity International Limited | Test Lead   **Gurgaon | Feb 2016 – Present**

Key Result Areas:

- Leading functional and automation testing efforts for Fidelity websites across UK, Germany, and Continental Europe, ensuring robust quality across multilingual platforms.
- Formulating and implementing comprehensive test strategies for both manual and automated testing, including Proof of Concepts (PoCs) aligned with evolving tech stacks.
- Coordinating a team of 10+ junior QA engineers, providing mentorship on technical challenges and continuous performance review based upon SMART goal setting and 360-degree feedback.
- Architecting scalable test automation frameworks using Playwright with TypeScript, Cucumber BDD, and integrating them with Jenkins CI/CD pipelines.
- Enhancing test environments by containerizing frameworks using **Docker** and deploying **scalable** executions on **AWS** cloud infrastructure.
- Building data-driven automation frameworks supporting parallel, cross-browser testing across 18+ regional websites via SauceLabs, utilizing Java, TestNG, and Extent Reports.
- Developing custom QA utilities for niche requirements such as **Accessibility Testing** (A11y), **Visual Regression Testing**, and web crawlers for dead link detection.

Highlights:

- Successfully launched a multi-region automation suite that reduced manual regression effort by 65% and improved release cycles by 50%.
- Designed and deployed a Dockerized test framework integrated with AWS and Jenkins, accelerating automation test execution by 50%.
- Engineered a robust, scalable Selenium-Java automation framework from scratch to support 16 multilingual Continental Europe websites, reducing regression testing time from 10 hours to 1 hour including post-execution analysis.
- Spearheaded the transition from legacy test practices to a modern NodeJS-based automation stack, significantly improving code maintainability and scalability.
- Mentored 10 junior engineers, elevating team productivity and enabling faster onboarding of new tools and methodologies.
- Created high-efficiency utilities to streamline visual regression and accessibility testing, enhancing product inclusivity and compliance with WCAG standards.
- Engineered and integrated an automated visual regression testing layer into the CI/CD pipeline for a Django-based CMS, resulting in a 90% reduction in UI-related production incidents across platforms and devices.

Aspire Systems | Senior Engineer   Gurgaon | Mar 2013 – Jan 2016

- Delivered 4 compelling test automation PoCs within a month for prospective clients, leading to the successful conversion of 3 into full-scale projects, showcasing technical expertise and accelerating business growth.
- Designed and implemented robust data-driven test automation frameworks using Selenium WebDriver, Maven, TestNG, Jenkins, and Extent Reports.
- Executed performance benchmarking by designing load and stress tests using JMeter to assess application scalability and responsiveness.
- Automated critical test scenarios for a client's Point of Sale (POS) desktop application using Test Complete, enhancing testing accuracy and regression efficiency.

Dell Services | Svc IT Dev Program Sr Assoc II   Bangalore | Mar 2010 – Mar 2013

- Conducted comprehensive manual testing of client applications across desktop, web, and mainframe environments, ensuring full functional coverage.
- Designed, developed, and executed automated test scripts to validate application workflows and business rules.
- Authored and executed test cases for web services using SOAP UI, validating API responses and service integrations.
- Collaborated with cross-functional teams to report and track defects, ensuring timely resolution and quality delivery.

EDUCATION DETAILS

B.Tech. (Computer Science & Engineering) | DIT Dehradun | 2009

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- International Software Testing Qualification Board (ISTQB) Foundation Level Certified Tester
- IBM Certified Database Associate in DB2 9 Fundamentals
- HP Accredited Integration Specialist Functional Testing v 11 - HP Expert ONE Certification for QTP v11