

RAJAT SHARMA

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Professional Summary

Senior SDET / Quality Automation Lead with 8+ years of experience building UI, API and integration automation frameworks using Java, Python, Selenium, Playwright, TestNG and RestAssured. Experienced in translating complex business workflows into test strategy and release-ready automation for distributed systems. Led global launches, CI/CD integrated regression suites and quality governance across e-commerce and procurement-to-payment domains. Proficient in improving release efficiency, mentoring peers, global delivery collaboration and introducing tools/processes that improve quality visibility and defect prevention.

Technical Skills

Languages: Java, Python, TypeScript, JavaScript

Frameworks/Tools: Selenium, Playwright, TestNG, Postman, Rest Assured, GitHub CI/CD, Docker, TestRail, Jira, AWS Device Farm, Android/iOS, Jenkins, Coupa, Sirion

Cloud Services: Amazon Web Services(AWS), Salesforce

Selected Achievements

- Architected UI & API automation frameworks with **80% coverage** for critical eCommerce and Procurement-to-Payment workflows, reducing release cycles by **60-70%**.
- Led Tier-1 global launches for distributed systems & platforms across **11+ markets** impacting **300M+ customers** with minimal defect leakage.
- Built GenAI powered QA tool using **AWS Bedrock** and **AWS Quicksight dashboard** with **APIs**, adopted by **30+ engineers** and senior leadership, improving **visibility** and efficiency by **60%**.
- Amazon Awards: **Path Finder Award** (AI initiatives), **Eagle Eye Award** (prevented critical outage).

Experience

Marriott Tech Accelerator

November 2025 – Present

Global Procurement Technology (Hyderabad) - Senior Release Testing and Support Engineer (*SDET*)

Impact Summary: Automation architecture Lead for global **distributed procurement to payment systems**. Collaborating with product and development teams on quality design, building scalable **UI+API automation framework** achieving **60% coverage**.

- **Major Launches:** QA for global sourcing implementing integrated backend systems, validating integrations, service orchestration and E2E data flow while reducing STLC from 5 to 2 weeks through shift-left testing.
- **Automation & Optimization:** Developed data-driven validation framework with backend data verification across integrated systems, while streamlining team Jira workflows for improved collaboration.
- **Leadership & Global Collaboration:** Lead quality design discussions across worldwide teams. Aligned stakeholders via testability inputs in agile design discussions improving coverage by 60%.

Amazon

April 2020 – November 2025

Worldwide Seller Services (Hyderabad) - Lead Quality Assurance Engineer (*November 2024 - November 2025*)

Impact Summary: Senior QA lead for Global Seller Services & Supply Chain, accelerating releases by **50%** through automation **frameworks architecture** & **GenAI-driven QA**, while shaping **QA strategies** for a **20+ member team**.

- **Major Launches:** Directed QA for EU Store launch (mobile, desktop), Seller Services, Tax & Invoicing, Fulfilled by Amazon & Brand Analytics. Architected scalable automation frameworks reducing post-launch defects by 70%
- **Automation & Optimization:** Engineered Selenium-Java-TestNG framework architecture, reducing maintenance & code duplication by 50%. Enhanced release cycles by 2 hours, saving 100+ engineer-hours annually.
- **AI & Innovation:** Developed GenAI QA tool on AWS Bedrock, adopted by 30+ engineers. Implemented shift-left testing with 30% earlier defect detection.
- **Leadership:** Lead QA for Product/Engineering/UX teams. Built AWS Quicksight dashboard for release metrics. Authored QA guidelines, boosted automation adoption by 40% and mentored team members.

Worldwide Retail Stores (Bangalore, India) - Senior Quality Assurance Engineer (April 2022 - November 2024)

Impact Summary: Delivered multi-region eCommerce feature launches across **11 markets** impacting 300M+ customers, driving quality strategy across **14 engineers**, automating UI/API flows to ensure **zero-defect leakage**.

- **Major Launches:** Owned QA for Tier-1 features, AI-assisted recommendations, popup store, variation selection, buybox, Reviews & discounts. Automated regression suites & maintained CI/CD production pipelines.
- **AI & Innovation:** Planned & executed QA of self-learning GenAI recommendation model. Co-developed AWS-hosted QA tools with SDETs, driving cross-org adoption.
- **Quality Governance:** Led Quality Readiness Assessments reducing high-severity tickets by 25%. Established QA guidelines and maintained CI/CD pipelines, improving flaky test stability.

Amazon Alexa Devices (Chennai, India) - QAE (April 2020 - April 2022)

Impact Summary: Developed hardware-integrated and API-driven Python automation frameworks for Alexa devices, enabling remote regression execution. Owned E2E Mediaplayer feature, KPIs and accelerated test cycles across multiple releases.

- Built automation libraries for KPI validation of Alexa devices, eliminating manual runs. Automated network bandwidth adaptation and RESTful APIs integration, mitigating need for mobile devices.
- Engineered hardware-integrated tests with Raspberry Pi Pico and Neopixel for ambient light validation and Bluetooth audio modules for gapless playback.
- Enabled remote regression execution via device lab setup and adding firmware updates to automation framework.

Cognizant Technology Solutions

Jan 2018 - Feb 2020

Programmer Analyst

Chennai, India

- Built POM & Data-Driven automation framework for Salesforce banking platform using Selenium, Java and TestNG.
- Automated regression suites, reducing manual execution time by 50%.
- Authored and executed test cases for new features across contact management and role-based access control in employee portal.
- Collaborated with US teams in defect triage calls, driving faster resolution.
- Created new fields and forms in Salesforce for business-critical workflows.

Education

SRM University

2013 – 2017

Bachelor of Technology, **CGPA: 7.96**

Chennai, India

St Joseph's Academy

2012

Higher Secondary Certificate, **Percentage: 90**

Dehradun, India

Certifications

- LLM Performance Engineering (Badge Link)
- Lead a Tech Team (Badge Link)
- AI in Java Projects (Badge Link)
- AI for Productivity (Badge Link)