

Kuldeep Yadav

Senior Automation Engineer

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HSR LAYOUT, Bengaluru, India

In my previous roles, I have led the development of modular, reusable test automation frameworks for web, API, and mobile platforms using tools like Selenium, Appium, TestNG, Rest-Assured, and Cypress. I have architected CI/CD-integrated pipelines using tools like Jenkins, GitLab CI, and Docker, enabling seamless test orchestration and quicker release cycles. Additionally, I have driven the implementation of shift-left strategies by embedding automation early in the SDLC and advocating for Test-Driven and Behavior-Driven Development practices using JUnit, TestNG, and Cucumber.

Professional Experience

Avalara Technologies, Bengaluru
Senior Software Engineer In Test

August 2024 — April 2025

Engineered a multi-module Java-based automation frameworks for UI and API testing utilizing Selenium, RestAssured, TestNG, Maven, and Docker.

- Streamlined test creation and maintenance through reusable API test suites and integrated with Git-lab CI for CI/CD pipelines automation.
- Collaborated with Product, development, and DevOps teams to synchronize test automation with sprint deliverables, reducing QA feedback time by 2 days.
- Authored comprehensive test plans and test cases to enhance testing coverage.
- Implemented test optimization of session management and synchronization handlers, improving system reliability and code maintainability.
- Implemented end-to-end automation solutions for RESTful APIs, ensuring data integrity and backend validation using SQL.
- Used Git, Maven, Jenkins, and shell scripting for version control, build management, and test execution.
- Ensured adherence to BDD and TDD methodologies to improve code/test coverage and facilitate shift-left testing.

PhonePe, Bengaluru
SDET Engineer

July 2018 — July 2024

- Led mobile automation (Android/iOS) reducing weekly QA time by 30%.
- Designed Kafka producers/consumers to validate MySQL DB entries in runtime.
- Developed appium + Java-based test framework integrated with Git-lab CI.
- Successfully configured Git-lab CI/CD, integrated S3 for apps version management, and set up of cloud platform in docker and Kubernetes environments which leads to a streamlined and automation development process.
- Worked on creating a test automation framework and writing test scripts for web application testing using Selenium and Java.
- Achieved 95% automation coverage for critical micro services.
- Created mock service for 3rd-party dependencies, reducing test failures by 60%.
- Thoroughly test the integration of POS systems with micro-services architecture systems like subscription and billing management.
- Design, develop, and execute comprehensive End-to-end test plans and test cases for printer, Dynamic QR generator and Smart speaker devices.
- Used Git, Maven, Jenkins, and shell scripting for version control, build management, and test execution.
- Conducted cross-browser and cross-device testing using tools like BrowserStack and Headspin.

- Automated P0 test cases using Appium and Pytest framework.
- Built an API monitoring tool to track QA environment stability.
- Used Newman to validate invoice synchronisation from offline to online and API responses time.
- Optimised profile setup APIs, reducing response time by 60%. Integrated JIRA with the app deployment pipeline.
- Implemented Slack and JIRA integration to send daily status updates to Slack channels.

- Automated refund validation processes, reducing transaction failures by 25%.
- Built logic for availability-based car recommendation feature which leads to increased bookings by 20%.
- Participated in STLC and wrote automation for critical regression flows.

- Designed mobile test plans and automated sanity test suites for mobile applications.
- Performed regression, stress, and functional testing for both mobile and web applications.
- Developed automation scripts for web application testing.
- Integrated automation scripts with the deployment pipeline.
- Owned the deployment of QA builds to the QA environment.
- Created new test cases and updated existing ones based on application changes.
- Actively participated in Scrum ceremonies and sprint activities.

Education

Areas of Expertise

- Time Management
- Team Player
- Communication
- Regression Testing
- Functional Testing
- Python
- Selenium
- Maven
- Rest-Assured
- Jenkins
- WireMock
- TestRail
- Problem Solving
- Swagger
- AWS
- Kubernetes
- Self-Management
- Javascript
- Load Testing
- Api Testing
- Javascript
- Appium
- UIAutomator2
- Cucumber
- GitLab CI
- JIRA
- Confluence
- Strategic Thinking
- Newman
- Azure
- Proactive
- E2E Testing
- Technical Leadership
- Performance Testing
- Java
- Shell Scripting
- Cypress
- XCUITest
- Locust
- Docker
- Test Automation
- Collaboration
- Postman
- JMeter
- HeadSpin

- BrowserStack
- GraphQL

- MySQL

- Kafka

Certifications

[Java and API Automation with Rest-Assured](#)

[Credentials](#)

[Performance Testing Using Locust 1.0](#)

[Credentials](#)

Projects

[REST API Automation Framework Design based on BDD](#)

Technologies Used: Rest-assured, Java, TestNG, Maven, Jenkins

GitHub: [API-Automation-BDD-Framework](#).

This project uses the following dependencies:

- **JUnit 4:** For running Cucumber tests.
- **Cucumber:** For running Gherkin-based tests.
- **Rest-Assured:** For API testing.
- **Maven Surefire Plugin:** For running tests in Maven.

[Web Automation Design Pattern - Spring Boot and Selenium](#)

A scalable and maintainable web automation framework using Selenium WebDriver and Java, demonstrating the use of industry-standard design patterns such as Page Object Model (POM).

Tech Stack

- **Language:** Java,
- **Automation Tool:** Selenium Webdriver
- **Build Tool:** Maven
- **Test Framework:** TestNG
- **Design Patterns:** Page Object Model (POM)
- **Reporting:** ExtentReports (Optional integration)
- **CI Integration:** GitHub Actions / Jenkins (Optional)

GitHub: [Web automation design patterns Spring boot and Selenium](#)

[Mobile App Upgrade & Compatibility Testing using Appium, Bengaluru](#)

Technologies Used: Appium, Java, TestNG, Maven, Jenkins.

Github: [App Upgrade](#)

Before the release of the latest app version, performed backward compatibility and upgrade testing with previous versions. This project was integrated into the CI/CD pipeline and executed before each release.

Quality Engineering & Testing Excellence

- Designed and reviewed test plans and data for 100+ sprint cycles in Agile teams, ensuring 95% test case readiness before development sign-off.
- Collaborated closely with developers, product managers, and DevOps to ensure continuous integration and delivery quality (CI/CD) which reduce QA feedback time by 2 days.
- Passionate about shift-left testing, embedding automation at every stage, and enabling developer and experienced in grey-box and black box testing.
- Defined and executed test strategies and detailed test plans for web, API, and mobile applications, aligned with Agile project timelines.
- Reduced manual QA effort by 40% through automation of RC/Beta build.
- Mentored 5+ junior SDET, enabling faster on-boarding and improved code quality.
- Enhanced automation framework to notify post-deployment back-end failures. Actively contributed to Agile ceremonies and ensured timely QA readiness by collaborating with developers and PMs during sprint planning.
- Created and maintained comprehensive technical documentation for automation frameworks, test plans, API contracts, and reusable utilities to support on-boarding and team collaboration.
- Defined and executed test strategies and detailed test plans for web, API, and mobile applications, aligned with Agile project timelines.
- Oversaw the design and review of comprehensive test cases and scenarios based on functional and non-functional requirements.
- Managed defect lifecycle including reporting, triaging, tracking, and verifying fixes across multiple environments.
- Worked in Agile environments (Scrum), participating in daily stand-ups, sprint planning, and retrospectives.
- Applied strong understanding of OOP, Java, and RESTful APIs to support testing of enterprise-level applications.

Extra-curricular activities

[Hiring process an Employee engagement activity , PhonePe](#)

Actively participated in the hiring process and engaged in employee engagement activities.