KULDEEP YADAV

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SUMMARY

Detail-oriented SDET with 9+ years of experience in FinTech and SaaS, specializing in API, Web, and Mobile automation using Java, Python, REST Assured, Selenium, Appium, and Cypress. I design scalable test infrastructure for distributed, high-scale systems and integrate automation into CI/CD pipelines to enable fast, reliable releases. Driving adoption of TDD/BDD, observability, and AI-powered quality engineering practices.

WORK EXPERIENCE

Senior SDET | Capco Technologies   **Apr 2025 - Present**

- Eliminated test flakiness caused by stale data by implementing a run time data generation utility. This utility reads data types from Cucumber tables and dynamically queries or creates valid test data specifically for that execution cycle.
- Automated App & Web UI flows using Selenium, Appium, Cucumber BDD, and Java for asset management portal apps and implemented a centralized test execution framework.
- Led the optimization of the backend automation framework to fix the pipeline timeout issue, boosting execution performance by 30% and improved automation reliability to a 92%+ success rate across pipelines.
- Developed a parallel test execution strategy using GitLab CI/CD pipeline sharding, distributing 100+ E2E scenarios across multiple agents, which reduced regression feedback time by 40% (from 1 hour to 35 mins).
- Leading development of a centralized reporting portal that aggregates test results across all platform executions and provides possible fixes by analyzing execution logs and errors using AI-powered tools.

SDET III | Avalara Technologies Pvt. Ltd.   **Aug 2024 - March 2025**

- Took the initiative to develop scalable multi-module API and UI automation frameworks using SRP, POM, and Builder patterns, improving stability, reducing maintenance time by 40%, and standardizing automation practices across SDETs.
- Drove and executed the automation roadmap to enhance test stability and CI/CD efficiency by enabling parallel execution, integrating GitLab, Docker, and Kubernetes, and adopting a Shift-Left approach, reducing automation development time by 30% while improving overall release velocity and team productivity.
- Collaborated with product, developers and DevOps collaboration in a Shift-Left release process to define test strategies, create test plans, review code, and build automation utilities. Spearheaded the initiative to improve processes and technology, enhancing quality confidence, streamlining releases, and strengthening cross-team collaboration.
- Led the adoption of GenAI tools for automation script development, error analysis, and accelerating issue resolution through AI-powered chatbots and agents.

Software Engineer In Test | PhonePe Pvt Ltd   July 2018 - July 2024

- Drove the automation strategy from scratch for mobile and web automation for PhonePe Business (Node.js, React Native) and share.Market (Stockbroking) platforms across Android, iOS, and Web using Appium, Javascript, Java, TestNG, Maven, and Cypress.

- Automated critical user journeys including app upgrades, localization, push notifications, and RC/Beta testing, ensuring early defect detection and faster release validation by streamlining processes and integrating automation into the CI/CD pipeline (GitLab), manual QA efforts were reduced by 30% and release cycle time decreased from 5 days to 3 days, accelerating overall delivery efficiency.

- Drove and developed end to end automation for 20+ microservices with Kafka, MySQL, and service virtualization achieving 92% coverage, improving reliability, reducing KYC failures by ~60%, and boosting release speed and QA efficiency and empowering the QA team to focus on exploratory and risk-based testing.

- Improved reporting and monitoring by integrating Allure with Slack/email and Grafana dashboards (PostgreSQL + S3), providing real-time insights and reducing debugging time by 40%.

- Partnered with Product, Engineering, SRE, and Support teams on planning and architecture knowledge sharing, accelerating releases and reducing resolution time for high-priority issues.

- Mentored QA team members on automation practices and goal planning, team alignment, enhancing skill development, ownership, and overall team productivity.

- Performed end-to-end and integration testing across microservices and event-driven systems (Kafka).

- Designed scalable automation architecture supporting distributed microservices and parallel CI execution across multi-environment deployments.

- Contributed across SDLC and STLC by designing test plans, creating and executing test cases, performing functional and non-functional testing, and supporting CI/CD pipelines with Jenkins in Agile/Scrum environments.

- Established and tracked key QA metrics including defect leakage, test coverage, and release readiness, while contributing to testing of merchant and cloud-native platforms to enhance overall product quality and reliability.

- Defined and executed QA strategy including test planning, automation roadmap, and release readiness metrics to ensure scalable, high-quality product releases.

- Performed load/performance testing using JMeter & Locust, validating throughput, latency, and scale patterns for APIs and distributed systems.

- Deep expertise in backend server-side troubleshooting, kernel-level log analysis, and system resource monitoring (CPU/Memory/Disk I/O).

QA Engineer | Zopper   Dec 2017 - July 2018

- Developed an invoice syncing system that validates the number of invoices synced to the cloud and performs inventory and amount validation using Postman's Newman library

- Worked on performance improvements for user profile setup APIs using JMeter, reducing response time from 3 seconds to 1 second.

- Developed the App automation of P0 cases using Appium and Python which help to do basic sanity after QA build drop

- Built an API monitoring tool to track QA environment stability and periodically notify the status.

QA Engineer | Carzonerent   Nov 2016 - Nov 2017

- Validated complex business processes including invoice syncing, auto-refunds, and next-availability booking features, reducing transaction failures by ~25% and increasing advance bookings by ~20%.

- Contributed across SDLC and STLC by designing test plans, creating and executing test cases, performing functional and non-functional testing, and supporting CI/CD pipelines with Jenkins in Agile/Scrum environments.

- Worked on implementing the next availability feature for booking cars, which provides a list of cars based on user search data in case of non-availability at the specified time and date. This has increased advance bookings by approximately 20%.

QA Engineer | Fliplearn   **Aug 2015 - Sept 2016**

- Automation test script writing and framework enhancement and fixing.
- Test case design and writing for mobile application testing
- Experience in Agile methodology, Scrum, and Sprint, designing test plans and preparing test cases based on different test scenarios, manual testing, including functional and non-functional testing, stress testing, regression testing, and retesting. Build deployment using Jenkins.

EDUCATION

Bachelor of Technology with Honors.   **July 2010 - June 2014**
UP Technical University.
- Major in Electronics and communication engineering.
- Project on "Password-based circuit breaker using 8051 embedded technology.

10th & 12th.   **May 2003 - May 2009**
St. Xavier's Enter college.
- Major in Science.
- Participated in Olympiads, inter-school games, and festival competitions.

ADDITIONAL INFORMATION

- **Technical Skills:** Java, Python, JavaScript, Unix Shell Script, Rest-Assured, TestNG, PyTest, Junit, Appium, XCUITest, ADB, UIAutomator2, Cypress, Selenium, Locust, JMeter, BDD/TDD (Cucumber/JBehave & Gherkins), WireMock, Postman/Newman, Splunk, Kafka CLI, K6 (Exposure), Grafana.
- **CI/CD:** Github, GitLab CI, Docker, Kubernetes, Jenkins, Maven.
- **Database:** MySQL, SQL, NoSQL, Redis.
- **Cloud/Infra:** AWS (API Gateway), CloudWatch, MinIOS3, BrowserStack, Device farm, headspin
- **Cloud/Infra:** Test Management Tools: Confluence, JIRA, Zephyr, TestRail.
- **IDE Platform:** IntelliJ IDE, Xcode, Visual Studio Code, PyCharm.
- **Leadership & Stakeholder Excellence:** Release engineering, Strong stakeholder management and ownership mindset with a detail-oriented, analytical approach to problem-solving. Test Data Management, QA environment ownership, mentoring SDETs, driving QA maturity roadmaps, defining quality metrics and reliability KPIs, leading defect triage, optimizing automation ROI, improving test coverage reporting, and fostering cross-team collaboration through clear communication and knowledge sharing.

CERTIFICATION

- Rest API Testing (Automation) from Scratch-Rest Assured Java - Udemy
- Performance Testing Using Locust 1.0 - Udemy
- Cypress -Modern Automation Testing from Scratch + Frameworks - Udemy