

Virender Singh

Test Automation Engineer

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Professional Summary

Results-driven Test Automation Engineer with 3+ years of experience in quality assurance for web-based applications. Proven expertise in Java, Selenium WebDriver, and REST Assured frameworks, evidenced by automating **75% of test cases** and **accelerating regression testing by 30%**. Highly skilled in designing and implementing comprehensive test scripts, ensuring high test coverage, and driving exceptional software quality within Agile/Scrum and CI/CD environments.

Technical Skills

- Programming Languages:** Java, SQL
- Test Automation:** Selenium WebDriver, Playwright, REST Assured, Cucumber (BDD), TestNG, JUnit
- API & Tools:** Postman, Swagger, SOAPUI, JMeter, Putty
- CI/CD & DevOps:** Jenkins, Docker, Kubernetes, GitHub, GitLab
- Cloud Platforms:** Google Cloud Platform (GCP)
- Database:** Oracle SQL, MongoDB
- Version Control & Build Tools:** Git, Bitbucket, Maven
- Test & Project Management:** JIRA, Confluence
- IDEs & Methodologies :** IntelliJ IDEA, VS Code, Agile, SDLC

Key Achievements

- Automated **75% of test cases**, directly **reducing regression testing time by 30%**.
- Developed and implemented a library of reusable automation scripts, **enhancing overall testing efficiency by 40%**.
- Designed and maintained a robust End-to-End Automation Framework comprising **over 200+ test cases**.
- Ensured broad application compatibility by performing extensive cross-browser testing across **5+ major browsers**.
- Contributed to smoke and integration testing, identifying and logging **50+ defects in JIRA**, significantly enhancing user experience.

Professional Experience

Tata Technologies Ltd :

Automation Test Engineer

Oct 2023 – present (Project: NVRS)

- Performed **manual and automated testing** across releases to ensure **application functionality and reliability**. Maintained **Selenium, Cucumber, TestNG**, and **Java** frameworks, improving **test efficiency by 40%** and accelerating **test cycles by 20%**
- Designed and executed **API test cases** via **Postman** and **Postman CLI**, utilizing **Swagger documentation** for **endpoint validation** and integrated automated API testing into **CI/CD pipelines** using **GitLab**
- Conducted **backend validations** and **log analysis** on **Google Cloud Platform (GCP)** to verify **data accuracy**, debug **production issues**, and executed complex **SQL queries** to ensure **data consistency** across **relational databases**
- Created and maintained **test plans, test cases, test data**, and **reusable automation scripts** using **Agile methodologies**. Actively participated and collaborated with **cross-functional teams** to clarify requirements and mitigate risks.
- Managed **defects** and **quality assurance activities** end-to-end using **JIRA**, ensuring full **traceability** and **transparency** throughout the **QA lifecycle** and provided final **sign-off** for **production deployments**

August 2022 – Oct 2023 (Project: D42)

- Designed and executed **manual test cases** based on **functional specifications** and **user stories** for thorough **feature validation**
- Performed **functional, regression, UI**, and **end-to-end testing** to ensure **software reliability** across multiple modules
- Logged and tracked **defects using JIRA**, collaborating with **development teams** for timely resolution and revalidation
- Utilized **SQL queries** to validate **data integrity** and **consistency** during **backend testing** activities
- Participated in **Agile ceremonies** including **daily stand-ups, sprint planning**, and **retrospectives** to align **testing efforts** with delivery goals

Education

Chandigarh Group of Colleges
Bachelor of Technology in Computer Science
CGPA: 7.8/10

Mohali, Chandigarh
2018–2022

Awards and Recognitions

- Spot Awards (JLR| Q2-FY25): Recognized for exceptional client project performance
- Rise Award (TTL | Q1-FY25 & Q3-FY23): Honored for delivering high-quality work within tight deadlines

Certifications and training

- Selenium WebDriver with Java:** Built automation frameworks using Selenium WebDriver, TestNG, and POM. Applied synchronization techniques, data-driven testing, and cross-browser validation through real-world scenarios.
- REST Assured API Testing:** Mastered REST API automation using Java and REST Assured, including BDD-style testing with Cucumber, request chaining, response validation, and authentication techniques (OAuth, API keys).

Personal Information

Address: Phase 1 Hinjewadi, Pune - Maharashtra - 411057, India

DOB: 07 Nov 2000

Gender: Male