

# Lakshmanan M

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## Professional Summary

Experienced **Automation Test Engineer** with **3.5 years of experience** in software quality assurance and test automation. Skilled in designing effective test cases and developing automated test scripts using **Selenium WebDriver** and **Playwright** (Java), including implementing data-driven frameworks (TestNG) for web applications. Proficient in a broad range of testing tools and methodologies, including **BDD (Cucumber)**, API testing (Postman), performance testing (JMeter), and CI/CD pipelines (Jenkins, Azure DevOps). Adept at managing the defect lifecycle using **JIRA** in Agile Scrum environments. Recognized for strong team collaboration, communication, and problem-solving skills that ensure high-quality software deliverables.

## Technical Skills

**Test Automation:** Selenium WebDriver, Playwright, **Cucumber (BDD)**, TestNG, JUnit, Page Object Model, Data-Driven Testing

- ✓ **Programming & Databases:** Java, Python, SQL (MySQL/PostgreSQL)
- ✓ **Testing Tools:** Postman, JMeter, Katalon Studio, Selenium IDE
- ✓ **CI/CD & Version Control:** Jenkins, Azure DevOps, Git
- ✓ **Defect Tracking:** JIRA, Azure DevOps (Boards)
- ✓ **Methodologies:** Agile (Scrum), SDLC, STLC, Manual Testing
- ✓ **Testing Practices:** Functional Testing, Regression Testing, Smoke/Sanity Testing, Integration Testing, **API Testing**, Performance Testing, Cross-Browser Testing

- ✓ **Soft Skills:** Team Collaboration, Communication, Adaptability, Analytical Problem-Solving

## Professional Experience

**Automation Test Engineer**, iInterchange Systems Pvt Ltd – Chennai, India (*Dec 2021 – Present*)

- ✓ **Test Automation & Frameworks:** Developed and maintained automated UI test scripts using **Selenium WebDriver** and **Playwright** (Java) for web-based applications, ensuring robust regression coverage across multiple browsers (Chrome, Firefox, Edge). Implemented a data-driven test automation framework with **TestNG** and Page Object Model (POM) to enhance reusability and maintainability of test scripts.
- ✓ **Testing & QA:** Performed comprehensive functional, regression, integration, and system testing throughout the **SDLC**, validating new features and fixes in an Agile release cycle. Conducted cross-browser compatibility testing to guarantee consistent behavior of applications on various platforms.
- ✓ **Collaboration & Test Design:** Collaborated closely with developers and business analysts in an Agile Scrum team to review requirements, design effective test plans and test cases, and ensure thorough understanding of acceptance criteria. Participated in sprint planning, daily stand-ups, and retrospectives to align testing activities with development goals.
- ✓ **Defect Management:** Managed the **defect lifecycle** using **JIRA** – logged detailed bug reports with replication steps, tracked defect status, retested fixes, and verified resolutions to closure. Prepared test result summaries and metrics, communicating QA status and quality risks to stakeholders.
- ✓ **API & Performance Testing:** Performed API testing of RESTful web services using **Postman** and validated backend data integrity with SQL queries. Conducted performance testing using **JMeter** to identify throughput bottlenecks and ensure the application meets performance benchmarks under load.
- ✓ **CI/CD Integration:** Integrated automated test suites into **CI/CD pipelines** using **Jenkins** and **Azure DevOps**, enabling continuous testing on each build and immediate feedback on code quality. Maintained version control of test scripts in Git and coordinated test environment deployments for smooth execution of nightly test runs.
- ✓ **Key Achievements:** Automated **~80%** of regression test cases, increasing overall test coverage by **30%** and significantly reducing manual effort. Identified critical defects early in the development cycle, contributing to an **85%** reduction in post-release defects and improving product quality and customer satisfaction.

**QA Automation Engineer**, QnQ Healthcare Pvt Ltd – Villupuram & Chennai, India (*Jan 2021 – Dec 2021*)

- ✓ **Automated Testing:** Spearheaded the adoption of test automation for healthcare ERP and AI-based applications. Developed and executed automated

test scripts using **Selenium** to validate critical functionalities, reducing manual testing effort and improving test accuracy.

- ✓ **Test Case Development:** Translated business requirements into detailed test scenarios and test cases, ensuring comprehensive coverage of functional workflows and edge cases. Performed rigorous **smoke, regression, and integration testing** to catch issues early in the development cycle (**STLC**), minimizing downstream defects.
- ✓ **Quality Assurance:** Documented test procedures, test data, and results for each test cycle. Communicated defects and observations to the development team, and re-tested fixes to ensure issues were resolved. Maintained test environments and test data sets to mirror production scenarios for reliable testing outcomes.
- ✓ **Collaboration:** Coordinated with cross-functional teams (developers, product owners) to clarify requirements and triage defects. Provided regular test status updates and quality reports to project stakeholders, contributing to informed decision-making and timely project delivery.
- ✓ **Result:** Ensured **on-time delivery** of multiple project releases with high quality. The automation efforts and thorough testing contributed to a smoother release process and improved application stability for end-users.

## Education

**Bachelor of Engineering (B.E.) – Electronics and Communication Engineering**  
Dhanalakshmi Srinivasan Engineering College, Tamil Nadu, 2021 – **CGPA: 7.9/10**

## Additional Information

- ✓ **Willing to Relocate:** Open to job opportunities across India; able to relocate as needed.
- ✓ **Travel:** Willing to travel for project needs or client meetings as required.