

MANJU LATA SINGH

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Location: Ashburn, VA 20147

Summary:

- Experienced QA professional with 12+ years in software testing, currently working at NSF, leading efforts in Web, Mobile, API, and Accessibility testing.
- Leading **QA and BA responsibilities** at the **National Science Foundation (NSF)**, ensuring alignment between internal teams and third-party vendors for seamless integration and validation.
- Skilled in test automation using Selenium, Cucumber (BDD), Ready API, and performance/security testing with RPT and HCL AppScan.
- Recognized for bridging gaps between technical and business teams—translating requirements into actionable testing strategies and ensuring traceability from user stories to final validation.
- Has expertise in complete software testing life cycle process in Web & Mobile Automation testing using JBehave, Selenium WebDriver, Ready API, RTM tool, Appium, and SoapUI.
- Actively using Amazon Q to enhance Selenium-based automation and improve code productivity.
- Strong in **508 accessibility testing**, using **Sort Site**, **Lighthouse**, and **Dragon** tools to ensure digital accessibility for all users.
- Proficient in Mobile Automation Test Suite design using Cucumber/Calabash-Android and Android Software Development Kit
- Experienced in full-cycle QA, including test planning, estimation, test case creation, data setup, and reporting
- Skilled in IoT testing, cross-platform/browser validation, and mobile UI testing across Android, iOS, and Windows.
- Worked extensively in Agile Scrum environments and contributed to CMS development with comprehensive testing across Functional, Integration, Usability, Compatibility, Regression, Security, Endpoint, and Performance aspects

Skill Set:

Test Automation	Selenium, Ready API, Cucumber, Parasoft, Appium, HP Quick Test Professional, Word press
Tool/Framework	JMeter, Load Runner, Junit, TestNG, Rational performance test
Mobile Testing Tools	Appium (Android & IOS), Calabash-Android
Software/Supporting Tools	Rally (CA Agile Central), Kibana, Eclipse, SQL developer, SOAP UI, Maven, Git, SVN, SOAP UI, Maven
Test Management and Tools	HCL App Scan, 508 Sort Site, ALM, Quality Center 9.0, JIRA, Smart Test Manager (TCS in-house tool)
Devices	Android Emulator, IOS Simulator and Real Devices
Languages	Java, C, Visual Basic 6.0, HTML, Java Script, VB script, Gherkin, Ruby
Operating Systems	Windows XP, Windows 7, Unix, Mac OS

Database	Sybase, Postgres, SQL, PL/SQL, Oracle 9i/10g, Elasticsearch (NoSQL)
Cloud/Quantum Computing	Amazon Q

Engagement Overview-

Client : National Science Foundation (PES)

Role : Software Engineer (QA Lead) | Business Analyst | Test Coordinator

Duration: March 2024 - Till Date

Responsibilities:

- Responsible for interacting with the application (vendor) team and across multiple cross teams and clients, on a daily basis, to support the application's Integration functional & technical (includes API, performance, service recovery, and security) testing and/or validation activity and reporting/documentation for new and existing development
- Function as a dual-role **QA Lead and Business Analyst**, leading end-to-end testing and business requirement alignment across NSF applications and third-party vendor systems.
- Collaborate directly with vendors and NSF stakeholders to **ensure environment readiness, prod-like validation data availability**, and that the **right NSF resources are in place** for seamless execution of testing phases.
- **Coordinate integration testing** by identifying impacted systems, bringing together cross-functional teams, and ensuring all components are tested collectively without gaps.
- Orchestrate **performance testing readiness** by aligning all stakeholders, ensuring monitoring teams are engaged, and validating that all systems are prepared for load and stress testing activities.
- Design and execute both **manual and automated test suites** using Selenium, Ready API, Rational Performance Test, and Jenkins; optimize test coverage and efficiency across releases.
- Serve as the **point of contact for defect triage and troubleshooting**, coordinating resolution efforts across application, infrastructure, and testing teams.
- Drive the preparation of key test artifacts, including **UAT documents, ITHC briefs, DIS testing summaries**, and **Release Readiness decks**.
- Facilitate and lead **UAT/ITHC sessions**, manage client validation, and ensure compliance with federal release standards.
- Support **release night validations**, conduct post-deployment checks, and ensure smooth production rollout.

Project Title: National Science Foundation (Research.gov/Fast Lane)

Role : Software Engineer

Duration : October 2019- Feb 2024

Responsibilities:

- Work with Business Analysts and Developers to review requirements, design, and test plans, providing effort estimates and test reports.
- Conduct Functional, Regression, Integration, Cross-Browser, Performance, Security, and 508 Compliance testing.
- Record scripts and capture response times using the RPT tool.
- Run security tests with HCL AppScan and Ready API (Endpoint security testing)

- Automate tests using JBehave, Selenium, and Jenkins
- Create Traceability Matrix, map user stories, test cases, and defects, and track results.
- Lead integration testing, coordinate teams, and onboard new members.
- Troubleshoot issues and manage test data.
- Track and resolve compliance issues with the Sort Site tool.
- Report defects and support UAT with clients.
- Monitor and update the Automation suite daily through Jenkins.

Project Title : USPTO (Pre-Exam – Next Gen)
Client : USPTO (United States Patent and Trademark Office)
Role : QA Analyst
Duration : October 2018- October 2019

Responsibilities:

- Analyze requirements, create and execute test cases (both manual and automated) using tools like Java, Selenium, Groovy, Cucumber, Ready API, and Maven. Configure and integrate tests with Jenkins.
- Prepare test plans, identify risks, and develop mitigation strategies. Ensure traceability from requirements to test cases and document defects.
- Participate in daily scrums, sprint planning, and retrospectives. Collaborate with developers and analysts to define system capabilities and interfaces.
- Coordinate deployment of web components, update support documents, and troubleshoot production issues.
- Track and report test progress, coverage, and defects. Maintain documentation for testing activities and results.

Project Title : Comcast sales Portal
Client : Comcast Cable Communications
Role : Automation Quality Assurance
Duration : May 2017- Sep 2018

Responsibilities:

- Developed and executed automation scripts using Java, Groovy, Cucumber, and more in Jenkins.
- Defined QA strategy to align with business goals and ensured documentation of QA processes.
- Prepared test plans with risk mitigation and executed tests, documenting issues.
- Reviewed and enhanced software programs for accuracy, performance, and reliability.
- Designed tools for SOAP XML validation and services migration from SOAP to REST.
- Developed Selenium scripts for GUI testing and customized reports for clients.
- Execution of Automation Suites, Defect tracking & Reporting using Parasoft, SOAPUI, Kibana (ELK stack)

Project Title : Smart City, City of Boston (COB), Palo Alto & PSM
Client : HCL America Waltham MA
Role : Programmer Analyst
Duration : May 2016- Mar 2017

Responsibilities:

- Provide support for Verizon IoT device testing, ensuring functionality across various devices and platforms.
- Created and maintained an automation framework from scratch using Selenium for web application testing.
- Involved in client discussions to understand requirements better, acting as a Business Analyst alongside QA.
- Analyze requirements and specifications for manual/automation testing of web applications and REST APIs.
- Define and implement QA strategies aligned with business goals.
- Prepare test plans, identify dependencies, risks, and create mitigation plans.
- Design test cases, execute test scenarios, and document issues.
- Ensure traceability of requirements, test cases, and results.
- Track and report testing activities, including defects and their status.
- Ensure QA processes are documented and communicated.
- Mentor new team members and provide training on testing processes.

Project Title : Dial Easy

Client : Wenova Inc. St. Louis Missouri

Role : Programmer Analyst

Duration : Jan 2016- May 2016

Responsibilities:

- Analyzed requirements and developed web and mobile applications based on business needs.
- Designed test strategies and evaluated tools for effective testing.
- Collaborated with clients to define features and improve website functionality.
- Wrote automated test scripts using Selenium WebDriver with hybrid frameworks.
- Tested mobile applications with Calabash and Appium.
- Executed test scenarios and generated reports using Calabash-Android and Cucumber.

Project Title: BskyB

Client : British Sky Broadcast, Scotland.

Role : QA Analyst, Mobile Automation Tester

Duration : Jan 2014- Jul 2014

Project Title: TTL - IT S&C - Testing

Client : Tata Teleservices Limited, India

Role : QA

Duration : Sep 2010-Dec 2013

Educational Qualifications:

➤ Bachelor of Technology (Information & Technology), India