Kishore Rayudu

Sr. QA Automation Engineer | Java | Selenium | Appium | Cucumber | BDD | Rest API | DevOps | GenAI
Denstone Dr, McKinney, TX 75070.
(469) 525-3629/ kishorerayuduqa@gmail.com
https://www.linkedin.com/in/kishore-rayudu-qa/

PROFESSIONAL SUMMARY

- Experienced software engineer around 9 years of expertise in Java, **Software Quality Assurance**, including **Manual Testing, Selenium Automation, API Testing, and various testing methodologies such as Integration, System, Functional and Regression testing.**.
- Collaborative team player with **8+ years** of experience in automation using Selenium with Java coding, platforms with **Eclipse** and **IntelliJ**, and working with **agile** teams to ensure timely delivery of key features
- Proficient in using **Selenium Webdriver** with **TestNG** and **Eclipse** and **IntelliJ** for automation in **hybrid model, data-driven, keyword-driven, and BDD frameworks** using Selenium.
- Crafted **next-generation test cases** leveraging **JBehave's Behavior-Driven Development (BDD)** methodology within **Jira** and successfully integrated with automation scripts to drive efficient testing and validation of software applications.
- Experienced in using version control tools like **GitHub and GitLab, Azure pipelines** for automation builds, and **Jenkins and EC2 instances** for automation script execution.
- Database testing with **MySQL** and working with cloud technologies like **AWS** and client servers.
- Tested **APIs** using **Postman**, ensuring seamless integration and data exchange.
- Developed expertise in managing and testing **HTTP** methods, resulting in improved API functionality and data manipulation
- Applied **GenAI for code refactoring and documentation** of automation frameworks, improving maintainability and reducing onboarding time for new QA team members.
- Used **GenAI** tools to transform business requirements into executable **test scripts**, accelerating **test development** and ensuring tighter alignment with acceptance criteria.
- Integrated **GenAI** into **test planning** workflows to assist in **writing, reviewing, and optimizing QA documentation, test strategies, and defect summaries.**
- Employed prompt engineering techniques with GenAI to perform intelligent log analysis, extract key error patterns, and auto-suggest resolution steps during regression testing.
- Expert in **Performance Testing,** skilled in using tools like **JMeter** to simulate load and evaluate system performance under stress, ensuring optimal behavior in high-traffic scenarios.
- Comprehensive Testing Experience, conducted a variety of performance tests, including **Load**, **Stress**, **Soak**, **Spike**, and **Scalability** tests, to validate application stability and scalability under diverse user loads.
- Experienced in using **OWASP ZAP (Zed Attack Proxy)** to perform both automated and manual security testing, identifying critical vulnerabilities such as **XSS**, **SQL** injection, and **CSRF** in web applications.
- Developed and executed comprehensive penetration tests using **OWASP ZAP**, including fuzzing, crawling, and vulnerability scanning, to uncover hidden security flaws across both front-end and back-end code.
- Analyzed logs and captured **API** requests and responses, identifying trends and patterns to optimize **API** performance and reliability
- Proficient in analyzing and translating business requirements to technical requirements, using **Jira** and **Azure DevOp**s for **bug reporting** and **test plan management**, and knowledge of Confluence for project data storage.
- Leveraged **Jira AI Assistance** to create and manage **user stories and test cases,** streamlining the testing process and improving efficiency.
- Generated **status reports** and managed project progress using **Jira AI Assistance**, ensuring timely delivery and stakeholder communication.
- Experienced in testing **hybrid applications** (Web and Mobile applications), ensuring compatibility, functionality, and user experience.
- Managed various mobile devices, including **Android, iOS,** and **iPad**, to test and validate application functionality and performance.
- Demonstrated expertise in software engineering concepts like **STLC**, **Agile methodologies**, and clear fundamentals in all phases of software development life cycle, including **requirements analysis and testing of various web applications.**

- Strong problem-solving, proactive thinking, analytical, programming skills, communication skills, work ethics, and the ability to work well in a team or individual environment.
- Experienced in preparing **Test plan and Test Cases**, creating, modifying, and enhancing manual Test cases, and designing test cases covering all test conditions and eliminating redundancy and duplication.
- Good working knowledge of major Operating Systems and tested applications on Windows 98/2000/XP, Mac environments, and experience in browser compatibility testing with different browsers like Google Chrome, FF, and IE.

SKILL SET

Core Competencies:	Technical Skills:
• Web Automation & Manual Testing	• **Programming Languages:** Java,Python,JavaScript
• API Testing (Postman)	• **Operating Systems:** Windows, Mac
• Rest Assured	• **Cloud Technology:** AWS,Saviynt
• Mobile Automation (Appium)	• **Database:** MySQL,Oracle,PostgreSQL,DBeaver
• Test Planning & Estimation	• **Web/UI Automation:** TestNG, Maven, Selenium IDE, Selenium RC, WebDriver, Selenium Grid, Quality Center, TFS, Microsoft Test Manager, Postman, Jenkins, RestAssured, Appium,UiPath.
• Integration & Regression Testing	• **API Testing:** Rest Assured, Postman
• Agile & Scrum Methodologies	• **Mobile Automation:** Appium
• Defect Tracking & Prevention	• **Automation Frameworks:** Data-Driven, Keyword-Driven, BDD (Cucumber),Serenity framework
• Test Documentation & Metrics	• **Version Management:** GitHub, TFS, Azure Git
• Quality Assurance	• **Project Management Tools:** Jira, Azure DevOps
• Selenium (Java)	• **IDEs:** Eclipse, IntelliJ, VS Code
• STLC & SDLC	• **MS-Suite:** MS Word, Excel, PowerPoint, Outlook
• Microsoft Office Suite	• **Test Management Tools:** JIRA, TestRail,Zephyr,BitBucket, Confluence,Jmeter,Oswap,Browser stack,Pcloudy,DBeaver,Oracle,Postgrace
• Script Maintainance	• **Integrated Development Environments (IDEs):** Visual Studio, Eclipse, IntelliJ

EDUCATION

Bachelor of Technology in Civil Engineering at JNTUK, India - 2016

CERTIFICATION:

ISTQB Certified Tester – Advanced Level Test Automation Engineer (CTAL-TAE)
ISTQB Foundation Level Certification (CTFL)
AWS Certified Developer – Associate
Azure Administrator Associate
Lean Six Sigma – Certified White Belt

PROFESSIONAL EXPERIENCE:

Sr. Automation Test Engineer | State Farm | McKinney, TX   **May 2025 - Present**
Responsibilities:
- Actively engage in Agile ceremonies including sprint planning, daily stand-ups, backlog refinement, and retrospectives, contributing to requirement analysis and testing strategy discussions.

- Design and implement comprehensive test plans and test cases, ensuring coverage of functional and non-functional requirements throughout the development lifecycle.
- Enhance and maintain a modular, data-driven automation framework built on the Page Object Model (POM); utilize Apache POI for dynamic test data handling from Excel sources.
- Perform a wide range of testing activities such as system, regression, UAT, smoke, and exploratory testing; deliver clear and concise test documentation and reports.
- Utilize Maven for efficient dependency management and project structure; integrate test suites into CI/CD workflows using Jenkins for automated execution.
- Build and extend Selenium WebDriver-based automation frameworks using Java, TestNG, and Eclipse; consistently optimize for maintainability and performance.
- Designing and maintaining a robust cross-platform mobile automation framework using Appium for both Android and iOS applications.
- ntegrating the framework with cloud-based testing platforms such as BrowserStack for scalable remote test execution.
- Implement Behavior-Driven Development (BDD) using Cucumber; write and maintain Gherkin-based feature files and corresponding step definition code for reusability.
- Leverage TestNG to execute parallel and prioritized test cases, accelerating feedback cycles and improving test reliability.
- Conduct RESTful API testing both manually and through automation using Postman and Java-based libraries; verify API responses, workflows, and integration points.
- Perform backend validation through SQL queries using JDBC to ensure data accuracy and consistency across environments.
- Manage defect tracking and resolution through JIRA, collaborating closely with developers and stakeholders to drive timely fixes and updates.
- Maintain code versioning and collaboration using Git and SourceTree; enforce consistent development standards across automation artifacts.
- Provide technical guidance and mentorship to junior QA engineers, fostering team growth and encouraging best practices in test automation and quality assurance.

Environment: Java, Selenium WebDriver, Serenity BDD, Appium, IOS, Android, JIRA, Zephyr, Cucumber,Agile, IntelliJ, Maven, Jenkins, CI/CD,Jenkins, Git, BDD, Browser Stack,DBeaver.

Sr. Automation Tester | CVS | Irving, TX   **Nov 2024 - April 2025**
Responsibilities:
- Developed Test Plans and Manual Test cases using Jira and Jbehaves
- Implemented and maintained an Automation framework using Selenium WebDriver, TestNG, and Maven
- Implemented Mobile automation framework using Appium and browser stack
- Configured and managed Azure CI/CD pipeline for scheduled test case execution
- Designed and implemented a scalable, cross-platform mobile test automation framework using Appium for both Android and iOS native and hybrid apps.
- Implemented capabilities configuration for multi-device, multi-platform support and used desired capabilities effectively to manage device-specific configurations.
- Supported local, cloud-based Pcloudy test environments
- Modified and enhanced existing automation scripts to improve test coverage and efficiency
- Installed builds in QA environment and ensured proper functioning of the application
- Participated in Agile Methodology in Software Development Life Cycle, contributing to sprint planning, backlog refinement, and sprint reviews
- Collaborated with the development team in Bug Triage meetings and daily standup meetings to prioritize and resolve issues
- Created and managed tasks in JIRA to track progress and ensure timely completion of deliverables
- Wrote and executed manual test cases for functional specifications, ensuring thorough testing of the application

- Prepared test data for automation framework, ensuring accurate and relevant data for test execution
- Conducted DB testing, ensuring the integrity and consistency of data in the application
- Presented scripts and Test plans to stakeholders, ensuring clear communication of testing strategy and results

Environment: Java, Selenium WebDriver, Serenity BDD, Appium, emulator, simulator, IOS, Android, JIRA, Zephyr, Cucumber,Agile, IntelliJ, Maven, Jenkins, CI/CD,Jenkins, Git, BDD, Browser Stack,DBeaver,Saviynt.

Sr. Automation Test Engineer | Anthem | Plano, TX   **Sep 2023 - Aug 2024**
Responsibilities:
- Led and supervised a team of six QA testers, overseeing the end-to-end testing process for complex hybrid mobile and web applications, while ensuring deadlines were met and quality standards upheld.
- Designed and developed robust, scalable automation frameworks using Selenium WebDriver and TestNG, implementing a Behavior-Driven Development (BDD) approach to enhance collaboration between QA and development teams.
- Built comprehensive automation scripts to validate RESTful APIs using Rest Assured, verifying backend responses and ensuring consistency with front-end behavior.
- Managed functional and regression testing of mobile applications across various real devices and platforms using BrowserStack, ensuring cross-browser and cross-device compatibility.
- Authored comprehensive test plans and well-structured manual test cases based on technical documentation and stakeholder input, ensuring complete coverage of business and functional requirements.
- Interpreted functional specifications to create detailed test scenarios, executing manual testing to validate front-end and backend functionalities across various modules.
- Automated end-to-end BDD test scenarios using Selenium WebDriver, TestNG, and IntelliJ IDEA, streamlining the QA process and reducing manual testing overhead.
- Configured and maintained continuous integration pipelines by integrating automation frameworks with Maven and Jenkins, enabling scheduled, parallel, and automated test executions.
- Analyzed, updated, and refactored existing automation scripts to improve code reusability, execution speed, and overall testing efficiency in line with evolving application features.
- Conducted thorough web services and API testing using Swagger and Postman to validate data flow, response accuracy, and system behavior between ERP systems and underlying databases.
- Deployed and validated application builds in controlled QA environments, identifying environment-related issues early in the testing lifecycle.
- Automated invoice processing workflow using UiPath REFramework, incorporating exception handling and logging for better error tracking.
- Developed and deployed simple attended bots using UiPath Studio to automate data entry tasks across Excel and web forms, reducing manual effort by 50%.
- Resolved memory-related issues by analyzing log files and modifying configuration settings, improving application stability during automation execution.
- Actively participated in Agile development practices, including daily stand-up meetings, sprint planning sessions, and defect triage discussions to stay aligned with cross-functional teams.
- Created, updated, and tracked testing tasks, user stories, and defect tickets in JIRA, ensuring transparency, accountability, and timely resolution of bugs.
- Designed and prepared structured test data tailored for various automation testing scenarios, ensuring the reliability and repeatability of test results across environments.
- Performed in-depth database testing using complex SQL queries to validate data integrity, consistency, and accuracy across different application modules and relational tables.
- Conducted detailed walkthroughs and reviews of test plans, automation scripts, and testing strategies with business stakeholders and technical teams to ensure alignment and clarity on test objectives.

Environment: Selenium,Microservices, Sarinity framework, Agile,UiPath, JUnit, Zephyr, Java, Angular, MS SQL, Azure Devops, Git,Maven,TestNG,Jenkins,CI/CD,Confluence,BDD Cucumber,Jmeter.

Sr. Software Test Engineer| Inovalon | Bowie, MD   **Mar 2023 - Aug 2023**
Responsibilities:

- Reviewed functional specifications, business requirements, and user stories; actively participated in sprint planning, daily stand-ups, and other Scrum ceremonies
- Developed and executed end-to-end test cases within an Agile software development lifecycle
- Implemented a Data-Driven Framework using the Page Object Model (POM) to automate web application testing; integrated Apache POI to read test data from external Excel files
- Conducted various types of testing including System Testing, User Acceptance Testing (UAT), Regression Testing, Ad-hoc Testing, and Smoke Testing; created detailed test reports for each phase
- Utilized Maven to manage project dependencies and streamline test framework integration
  Configured Jenkins for Continuous Integration (CI) and scheduled automated regression test executions
- Built a robust, object-oriented test automation framework from scratch using Selenium WebDriver, Eclipse, TestNG, Apache POI, and Java
- Developed and executed Behavior-Driven Development (BDD) frameworks using Selenium WebDriver and Cucumber
- Authored feature files and corresponding step definitions in Cucumber to enable automated script execution
- Performed parallel test execution and prioritized test cases efficiently using TestNG with Selenium WebDriver
- Conducted manual and automated API/web service testing using Postman and Apache HTTP client libraries
- Integrated Selenium WebDriver scripts with Jenkins for automated nightly builds and continuous test execution
- Leveraged JDBC APIs and wrote complex SQL queries to validate backend data integrity and ensure consistency
- Retrieved and validated test data from SQL Server databases through advanced SQL query execution
- Tracked and reported defects using JIRA; managed the entire defect lifecycle and collaborated closely with development teams for resolution
- Utilized SourceTree for version control to manage automation scripts, test data, and project-related documentation
- Provided mentorship and technical guidance to team members to promote collaboration and enhance design and analysis capabilities

Environment: IntelliJ, API testing, Postman and Swagger

Sr. Associate - Software Services | Freyr | Princeton, NJ   **February 2021 - February 2023**
Responsibilities:
- Developed detailed Test Plans, Test Scenarios, Test Cases, Test Scripts, and Test Data from functional requirements, both at the application level and for database-level verifications
- Reviewed critical project documentation, including the Product Backlog, Functional Specifications, and Technical Documents to ensure complete test coverage
- Participated in Agile ceremonies such as Daily Scrum, Iteration Planning, Sprint Reviews, Retrospectives, Backlog Grooming, and Release Planning
- Created and executed automated regression and functional test scripts using Selenium WebDriver, Eclipse, I IntelliJ IDEA, TestNG, Java, Maven, and Log4j
- Designed and implemented a Page Object Model (POM) automation framework with Java and Selenium WebDriver
- Built automation solutions using a Data-Driven Framework combined with POM to improve test coverage of web applications
- Conducted API testing using Postman to validate responses and ensure expected outcomes
- Performed Web Services testing using REST APIs using Postman
- Generated detailed test reports using TestNG and implemented error screenshot capture for enhanced reporting and debugging
- Managed and configured Maven build files (pom.xml) and integrated test execution with Jenkins for continuous testing in CI/CD workflows
- Utilized JIRA for defect tracking and management, coordinating with development teams for resolution and verification of fixes
- Executed backend validation through SQL queries to ensure data integrity and retrieve test-specific data from the database
- Performed parallel and cross-browser testing on Chrome, Firefox, and Internet Explorer to ensure consistent performance across platforms
- Created user documentation with annotated screenshots to support User Acceptance Testing (UAT)

- Used Git for distributed version control and source code management, maintaining version history and team collaboration
- Provided application knowledge and test preparation guidance to offshore QA teams
- Organized and led Defect Review Board meetings to communicate daily defect status and coordinate issue resolution

Environment: Java, Selenium WebDriver, TestNG, JSON, DOM, Postman, TFS, Agile, Internet Explorer, Chrome, Firefox, SQL, Jira, Microsoft Azure,Oswap

Sr. Automation Test Engineer| Unilog | Wayne, PA   **August 2016 - November 2020**
Reponsibilities:
- Developed meticulous test plans and test cases for positive and negative testing through Boundary Value Analysis and Equivalence Partitioning techniques in line with right analysis of user stories.
- Carried out automated testing of angular applications by making use of Java and Selenium WebDriver for gaining functional as well as regression testing.
- Designed and maintained automated test scripts of web applications employing Java, Visual Studio, JUnit framework, and Selenium WebDriver.
- Utilized Document Object Model (DOM) and XPath to successfully interact with static and dynamic web elements in Selenium.
- Implemented synchronization methods like implicit and explicit waits to make tests stable and reliable.

- Investigated software bugs and recorded defects using Team Foundation Server (TFS), which is a defect tracking as well as project management tool.
- Conducted various types of manual testing like functional, smoke, regression, integration, and system testing for front-end web applications.
- Created and ran complex SQL queries to retrieve, manipulate, and analyze data for validation and reporting purposes, ensuring accuracy and performance.
- Maintained and updated automated test scripts through version control for audit readiness and traceability.
- Developed project metrics, defect logs, and summary reports to provide testing progress and quality metrics to product owners and stakeholders and acting as a liaison point within the QA team.

Environment: Selenium WebDriver, Eclipse, Postman, Java, TestNG,SQL, Jira, Jenkins, GIT,Maven,TestNG.