**Name:**

**Email:**

**Phone:**

# **QA AUTOMATION ENGINEER**

## **Professional Summary**

* Experienced **QA Automation Engineer** with **10 years of experience** in designing, developing, and maintaining advanced automation frameworks for web, API, and backend systems. Adept at implementing scalable automation solutions, integrating CI/CD pipelines, and collaborating with cross-functional teams to ensure consistent, high-quality software delivery. Skilled in **Java, Selenium, TestNG, Cucumber, REST Assured, Jenkins, Git, Maven, Docker, AWS, SQL**, and Agile methodologies, with proven expertise in automation strategy, framework optimization, and QA governance.
* Designed and implemented hybrid automation frameworks using Java, Selenium, and TestNG, incorporating reusable components, structured logging, dynamic waits, and modular architecture for maintainable and scalable test automation solutions.
* Architected CI/CD pipelines in Jenkins integrated with Git and Maven, enabling automated execution of regression and smoke suites on multiple environments and ensuring timely validation of builds during every release cycle.
* Automated REST API test scenarios using REST Assured and Postman, including dynamic payload generation, schema validation, and backend database verification to ensure complete end-to-end service reliability.
* Developed BDD frameworks with Cucumber and Gherkin syntax, translating business requirements into executable automation scenarios that improved collaboration and transparency between QA and development teams.
* Implemented data-driven frameworks using Excel, property files, and configuration management utilities to allow flexible, environment-specific automation execution across multiple modules.
* Configured parallel execution using Selenium Grid and Docker containers for cross-browser and cross-platform testing, improving regression coverage and execution efficiency.
* Created detailed reporting mechanisms using Allure and Extent Reports, providing actionable insights through execution logs, screenshots, and trend analysis for all automated test runs.
* Collaborated with developers and analysts during sprint planning to define automation scope, refine test cases, and ensure alignment with feature requirements and release objectives.
* Conducted backend database validations using SQL and JDBC connections, ensuring data accuracy, transactional integrity, and consistency across complex multi-tier systems.
* Developed reusable utility libraries for logging, test data management, environment configuration, exception handling, and reporting, reducing redundancy and enhancing framework maintainability.
* Integrated automated test execution into nightly regression and post-deployment smoke cycles within CI/CD pipelines, facilitating early defect detection and consistent product quality.
* Participated in code reviews, framework optimization, and best practice sessions to maintain high-quality automation standards and reduce technical debt.
* Conducted comprehensive validation of multi-tier applications including UI, APIs, backend services, and asynchronous workflows to ensure seamless end-to-end functionality.
* Mentored junior QA engineers on automation framework usage, coding standards, debugging, and best practices, promoting consistent quality and knowledge transfer across the team.
* Implemented risk-based testing strategies to prioritize critical functionalities and high-impact scenarios, ensuring effective test coverage and alignment with project timelines.

**Technical Skills**

| **Category** | **Skills** |
| --- | --- |
| **Programming Languages** | Java (Primary), Gherkin |
| **Test Automation Tools** | Selenium WebDriver, REST Assured, TestNG, Cucumber, Postman, JUnit, Selenium Grid |
| **CI/CD & DevOps** | Jenkins, Git, GitLab, Maven, Docker, AWS, CI/CD Pipelines |
| **Databases & Query Languages** | SQL, MySQL, PostgreSQL, Oracle SQL, JDBC Connections |
| **Operating Systems & Cloud** | Windows, AWS, Docker |
| **Reporting & Logging** | Allure Reports, Extent Reports, Structured Logging |
| **Methodology & Project Tools** | Agile (Scrum), Jira, Confluence, Risk-Based Testing |
| **Framework Concepts** | Hybrid Frameworks, Data-Driven, Keyword-Driven, Modular Architecture, Reusable Utility Libraries, Dynamic Waits, Exception Handling, Parallel Execution |

## **Professional Experience**

**Client: Duration:**

**Role: QA Automation**

**Responsibilities:**

* Designed a modular and scalable automation framework for web, API, and backend testing, incorporating reusable libraries, structured logging, and dynamic element handling to ensure maintainability and long-term reliability across all test scenarios.
* Developed Selenium-based automation scripts using TestNG integrated with Maven for build management and Git for version control, enabling streamlined execution and tracking of test cases across multiple environments.
* Automated REST API test scenarios using REST Assured, including dynamic payload generation, response schema validation, and backend database verification to ensure end-to-end service accuracy and reliability.
* Integrated automation suites into Jenkins pipelines for continuous execution upon build deployment, providing immediate feedback on regression and feature stability across environments.
* Implemented data-driven testing frameworks using Excel and property files, enabling dynamic test data handling and flexible execution across multiple modules and environments.
* Configured Docker-based Selenium Grid setups for parallel execution across multiple browsers and operating systems, improving test coverage and reducing execution time for regression suites.
* Developed detailed reporting using Allure and Extent Reports to provide execution summaries, logs, screenshots, and trend analysis for better defect traceability and stakeholder visibility.
* Performed backend validation using SQL queries across MySQL and PostgreSQL databases to ensure data integrity, transactional accuracy, and consistency across integrated services.
* Collaborated with developers and analysts to identify automation scope, define test scenarios, and validate feature readiness within Agile sprint cycles.
* Implemented dynamic waits, retry mechanisms, and exception handling in automation scripts to increase stability and reduce flakiness during regression execution.
* Developed reusable utility components for environment configuration, test data generation, and logging to improve maintainability and reduce redundancy in automation scripts.
* Integrated automated smoke tests into post-deployment CI/CD runs to validate system health and feature stability in production-like environments.
* Participated in sprint planning, retrospectives, and daily standups to provide automation insights, estimate effort, and align QA activities with project milestones.
* Mentored QA engineers on framework setup, automation best practices, debugging, and execution strategies to improve team productivity and consistency.

**Environment:** Java, Selenium, TestNG, Cucumber, REST Assured, Maven, Jenkins, Git, Docker, MySQL, Allure, Jira, Agile

**Client: Duration:**

**Role:** **Senior QA Automation Engineer**

**Responsibilities:**

* Designed and executed end-to-end automation suites for UI, API, and backend layers, ensuring consistent validation of functional and regression scenarios across multiple environments and configurations.
* Implemented hybrid automation frameworks combining data-driven and keyword-driven approaches to support diverse testing needs and reusable test components.
* Automated REST API testing using REST Assured with dynamic payloads, response validations, and database verification to ensure integrity of multi-service workflows.
* Configured Jenkins pipelines integrated with GitLab for continuous execution of automation scripts, enabling early detection of defects during the build process.
* Developed reusable test data management utilities for dynamic test execution across multiple environments and automated workflow scenarios.
* Enhanced automation stability by implementing dynamic waits, retry mechanisms, and exception handling in TestNG scripts to reduce test flakiness and execution errors.
* Validated backend data using Oracle SQL queries to ensure transactional accuracy and proper data flow between integrated systems.
* Developed reusable reporting dashboards with Extent Reports to consolidate automation results, track execution history, and identify trends in defect occurrence.
* Collaborated with development and operations teams to integrate automation into CI/CD pipelines and optimize execution environments for efficiency.
* Participated in sprint planning, backlog grooming, and daily standups to ensure alignment of automation scope with Agile story requirements.
* Built utilities for API token management, dynamic data generation, and configuration handling to improve framework flexibility and maintainability.
* Conducted framework refactoring sessions to enhance modularity, reusability, and maintainability of automation components.
* Coordinated with QA leads for risk-based test prioritization and ensuring critical functionality coverage in regression cycles.
* Mentored team members on automation best practices, framework usage, debugging techniques, and version control strategies.

**Environment:** Java, Selenium, TestNG, REST Assured, Jenkins, GitLab, Oracle, Postman, Docker, Jira, Agile

**Client: Duration:**

**Role:** **QA Engineer**

**Responsibilities:**

* Developed and maintained regression automation frameworks using Selenium WebDriver and TestNG, enabling repeatable execution of comprehensive test scenarios for multi-module web applications.
* Automated REST API workflows and integrated validations for backend data consistency across services using REST Assured and JDBC connections.
* Designed reusable property files and configuration management utilities to support flexible execution across multiple environments and modules.
* Configured Jenkins jobs for nightly regression execution, integrated with email notifications to provide automated feedback to stakeholders.
* Validated database transactions using complex SQL queries to ensure data integrity and accurate propagation across dependent services.
* Optimized framework performance by enhancing locator strategies, implementing reusable utility functions, and streamlining test execution workflows.
* Developed HTML-based test reports integrated with Jenkins to provide actionable insights and comprehensive execution summaries for each regression cycle.
* Coordinated with QA, development, and product teams to update regression and smoke suites, ensuring full coverage for newly added features and bug fixes.
* Implemented cross-browser and cross-platform testing using Selenium Grid to ensure consistent application behavior across multiple environments.
* Managed version control of automation scripts using Git, ensuring proper branching, merging, and review workflows for collaborative development.
* Developed reusable Excel-driven utilities for test input parameterization, improving flexibility and maintainability of test cases.
* Participated in test planning and impact analysis to align automation coverage with business requirements and release priorities.
* Provided ongoing maintenance for automated scripts, updating locators and configurations in response to application changes.
* Collaborated with team members to troubleshoot automation failures, identify root causes, and implement framework improvements.

**Environment:** Java, Selenium, TestNG, Maven, Jenkins, Git, MySQL, REST Assured, Postman, Agile

**Client: Duration:**

**Role: QA Analyst**

**Responsibilities:**

* Enhanced existing automation frameworks by introducing modular architecture, reusable libraries, and structured logging to improve maintainability and scalability of regression suites.
* Automated critical regression scenarios to validate core application functionalities, ensuring consistent quality across releases.
* Integrated automation execution into Jenkins CI pipelines, enabling post-build and nightly execution of regression and smoke tests.
* Participated in Agile ceremonies including sprint reviews and retrospectives to ensure QA alignment with project objectives.
* Validated UI workflows across multiple browsers and devices using Selenium Grid to ensure cross-platform compatibility.
* Performed backend validations using SQL queries to verify data accuracy, consistency, and transaction reliability across integrated modules.
* Developed reusable utility functions for environment setup, test data handling, and exception management to improve framework efficiency.
* Collaborated with development teams to resolve environment-related issues and automation failures in a timely manner.
* Designed and maintained detailed logging and reporting mechanisms to facilitate debugging and traceability for all automation runs.
* Supported QA documentation by creating framework setup guides, best practices, and test execution instructions for team use.
* Implemented dynamic element handling and synchronization mechanisms to enhance framework reliability and reduce script flakiness.
* Participated in peer reviews and knowledge-sharing sessions to improve overall framework quality and team skillset.
* Coordinated regression execution with manual testing efforts to ensure comprehensive coverage and defect detection.
* Provided guidance to junior QA members on automation usage, debugging, and reporting standards to improve overall productivity.

**Environment:** Java, Selenium, JUnit, Jenkins, Git, SQL Server, Jira, Confluence, Agile

**Client: Duration:**

**Role: Junior QA Engineer**

**Responsibilities:**

* Executed automated regression scripts built with Selenium WebDriver, maintaining and updating test suites to ensure consistent validation across all releases.
* Developed smoke test cases to verify build stability and deployment readiness, reducing risk of critical failures in production environments.
* Performed backend validation using SQL queries to ensure data consistency and integrity across integrated systems and services.
* Configured Jenkins jobs for automated execution of regression suites, generating execution reports and notifications for stakeholders.
* Assisted in maintaining and enhancing the automation framework, introducing reusable utilities and improving code structure for better maintainability.
* Developed reusable functions for web element interactions, data handling, and environment configuration, ensuring efficiency across multiple scripts.
* Automated API validation using Postman and integrated results into test reporting for backend verification and traceability.
* Participated in daily standups, defect triage meetings, and sprint planning sessions to provide updates on automation progress and challenges.
* Documented test execution results, framework usage instructions, and detailed defect logs for reference and team collaboration.
* Assisted senior QA engineers in troubleshooting automation failures and environment setup issues to ensure smooth execution cycles.
* Performed end-to-end validation combining UI, API, and backend layers to ensure complete functionality of applications.
* Maintained reusable reporting templates to provide consistent automation summaries for stakeholders and management.
* Supported manual QA efforts during peak release periods, ensuring comprehensive coverage of critical functionality.
* Participated in integration testing and validation of third-party components to verify proper system behavior across modules.

**Environment:** Java, Selenium, JUnit, Jenkins, Git, SQL Server, Postman, Jira, Windows