

Rishat Chowdhury

Senior QA Engineer

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Springfield, Virginia, United States ◇ Open to Remote, Hybrid, On-Site ◇
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SUMMARY

Results-driven Software Test Engineer with over 10 years of experience in testing Web, Client/Server, and N-tier applications across Windows and Linux environments. Demonstrates expertise in full SDLC and STLC processes, including test planning, test case design, defect management, and traceability matrix development. Skilled in Agile (Scrum, Kanban) and Waterfall methodologies, with hands-on experience in TDD and ATDD approaches. Proficient in automation frameworks using Java, Selenium WebDriver, TestNG, and Cucumber, and experienced in creating data-driven, keyword-driven, and hybrid frameworks from scratch. Possesses strong knowledge of SQL for database testing, and front-end technologies such as HTML5, CSS, JavaScript, and AngularJS. Adept at maintaining version control with Git and JIRA, and configuring QA environments using Maven and Jenkins to support continuous integration. Actively holds Top Secret/SCI clearance with MBI, DHS Trusted Tester, and 508 Certified Tester credentials, ensuring compliance with federal security and accessibility standards.

EXPERIENCE

USDA (United States Department of Agriculture) QA Automation Engineer

Sep '24 — Present
Washington DC, United States

Responsibilities: Test Planning & Execution: Designed, developed, and executed comprehensive test plans, test cases, and test scripts for both manual and automated testing, ensuring end-to-end validation of system functionality and integration.

- Developed and executed scalable automation scripts in Java using Selenium WebDriver and FitNesse, streamlining regression testing and accelerating release cycles through Jenkins-based continuous integration.
- Configured GitLab CI/CD pipelines to trigger automated regression tests and generate real-time reports, enhancing visibility into test results and minimizing manual intervention.
- Implemented and maintained GitLab CI/CD pipelines to automate test execution and reporting, reducing manual testing effort and accelerating release cycles across multiple environments.
- Developed and executed robust API and UI test suites to verify system functionality across multiple environments, ensuring seamless integration and consistent performance in USDA applications.
- Performed comprehensive Section 508 Compliance Testing using JAWS, ANDI, and WAVE tools to ensure USDA applications met federal accessibility standards and provided inclusive user experiences.
- Managed defect lifecycle using JIRA, tracking and prioritizing issues across Agile sprints to ensure timely resolution and maintain high software quality standards.
- Executed automated test deployments within Red Hat Linux environments, validating USDA application functionality and ensuring consistent performance across cloud-based systems.
- Developed and maintained comprehensive FitNesse test suites by writing and debugging test scenarios using FitNesse syntax, ensuring robust automation coverage and consistent validation across USDA applications.
- Engineered custom FitNesse fixtures to streamline complex test workflows and enable data-driven testing, improving automation efficiency and reducing manual intervention across USDA applications.
- Implemented data-driven testing frameworks in FitNesse to streamline automation workflows, enhancing test efficiency and reducing manual intervention across USDA applications.
- Diagnosed and resolved FitNesse test failures by troubleshooting Selenium WebDriver issues, refining configurations, and optimizing automation scripts to enhance test stability and reliability across USDA applications.
- Delivered detailed quality assessments and actionable recommendations on software usability, functionality, and performance, ensuring USDA applications met business requirements and enhanced user satisfaction.
- Analyzed test results to identify usability and performance gaps, delivering data-driven feedback that improved software quality and ensured consistency with USDA project objectives.

Raytheon Technologies Software QA Engineer

Jul '20 — Aug '24
United States (Remote)

Responsibilities: . Attending Daily Stand-up meetings, as part of the Sprint meetings following the Agile Methodology, for the QA Integration Team.

- Worked closely with developers and product owners to identify integration user stories and testing tasks during Sprint Planning, promoting clear scope definition and improved test coverage.
- Designed and executed comprehensive test plans and detailed test cases aligned with functional and technical requirements, ensuring full validation of system features and performance.
- Collaborated with QA lead to develop and maintain a comprehensive Traceability Matrix, ensuring full alignment between test cases and business requirements for complete test coverage.
- Developed and maintained data-driven test scripts using MS Excel to validate application functionality with both positive and negative test inputs, ensuring comprehensive coverage and improved defect detection.

- Reviewed and updated project documentation and work plans to accurately reflect approved requirement changes, ensuring alignment across development and QA teams.
- Developed and executed SQL Update and Insert scripts to manipulate test data, ensuring accurate setup and validation for database integrity testing across multiple environments.
- Collaborated with development teams to log, track, and verify software defects, ensuring timely resolution and maintaining high product quality across multiple releases.
- Developed and maintained automated test scripts using Java and Selenium WebDriver, increasing regression test coverage and reducing manual testing time by 30%.
- Engineered modular automation scripts within Eclipse IDE using Java and Selenium WebDriver, improving script reusability and long-term maintainability across multiple test suites.
- Configured and maintained continuous integration workflows in Jenkins linked with GitHub repositories, enabling automated test execution and faster feedback on code quality.
- Executed performance testing using Rational Performance Tester to simulate real-world user loads, analyze system responsiveness, and identify performance bottlenecks for optimization.
- Utilized JMeter to simulate real-world user loads, measure server throughput and latency, and collaborate with developers to fine-tune application performance across multiple environments.
- Executed RESTful API and SoapUI test cases to verify data integrity, response accuracy, and service reliability across multiple environments, ensuring consistent and high-quality web service performance.
- Designed and executed API test cases across multiple environments to ensure data accuracy, functional reliability, and seamless integration with backend systems, supporting high-quality software delivery.
- Executed end-to-end API testing using RESTful and SOAP protocols to validate data integrity, response accuracy, and cross-platform compatibility, ensuring stable and reliable system performance across multiple environments.
- Performed detailed validation of API endpoints to confirm data consistency and functional accuracy across integrated systems, contributing to improved interoperability and reduced post-release defects.

U.S. Department of the Treasury

May '20 — Jun '20

QA Tester

Washington DC, United States (Remote)

Responsibilities: Performed functional and Section 508 accessibility testing for a Drupal CMS application, collaborating with developers to resolve defects and ensure federal compliance. Supported Agile sprints through test execution, documentation, and continuous quality improvement.

- Worked for Department of Treasury project to write test cases and run functional test on Drupal CMS web application.
- Developed and executed comprehensive functional test cases from scratch for a Drupal CMS web application, ensuring full coverage of business and technical requirements.
- Collaborated with developers during daily sprint meetings to review, prioritize, and resolve software defects, ensuring timely delivery of high-quality releases.
- Utilized JIRA for efficient defect tracking and reporting while leveraging SourceTree to seamlessly access and review code from GIT repositories for validation and troubleshooting.
- Performed comprehensive Section 508 accessibility testing using JAWS, ANDI, DRAGON, and WAVE tools to validate compliance with federal accessibility standards and ensure inclusive user experiences.
- Worked with developers to validate and resolve accessibility issues within the Drupal CMS application, achieving adherence to Section 508 requirements and enhancing application usability for all users.
- Documented detailed accessibility test outcomes and collaborated with development teams to implement recommended improvements, ensuring enhanced compliance and user experience.
- Collaborated in cross-functional accessibility meetings to promote adherence to Section 508 compliance standards and ensure continuous improvement of testing practices.
- Collaborated with stakeholders to assess and prioritize accessibility improvements, ensuring Section 508 compliance was embedded throughout each phase of the Drupal CMS development lifecycle.
- Actively expanded knowledge of accessibility best practices and regulatory updates to strengthen Section 508 testing methodologies and support inclusive web application development.

Shaw Systems (Wells Fargo Bank)

Mar '19 — Apr '20

Software QA

Houston, Texas, United States (Remote)

Responsibilities: Working in web and desktop application test in terms of End to End testing in pre-production environment, generating test data, defect tracking, creating and executing test scripts in. . Work closely with members of the Scrum team to analyze requirements or Business Cases to a technical solution.

- Developed comprehensive Test Plan, Procedural, and Automation Design documents, ensuring alignment with project requirements and QA standards while delivering detailed daily and weekly progress reports to stakeholders.
- Collaborated with cross-functional teams across onshore and offshore locations to gather, clarify, and document testing requirements, ensuring alignment with project objectives and quality standards.
- Designed and implemented a robust Data-Driven and BDD automation framework using Selenium, Cucumber, Apache POI, and Java, improving test execution efficiency and maintainability across web applications.
- Performed database testing in SQL Server by executing complex SQL queries to validate data integrity, accuracy, and performance across individual tables.

- Executed Functional, Compatibility, Usability, and Regression testing across multiple web applications, ensuring full test coverage and compliance with Section 508 accessibility standards.
- Provided hands-on mentoring and technical support to test engineers on framework usage, enhancing team proficiency and reducing onboarding time for new automation initiatives by streamlining knowledge transfer.
- Performed comprehensive Usability and Compatibility testing across multiple browsers and platforms, ensuring consistent user experience and interface functionality for Wells Fargo's web-based applications.
- Utilized centralized version control system CVS integrated with JIRA to manage code versions, track defects, and streamline collaboration across QA and development teams.
- Implemented Section 508 accessibility standards across web and desktop platforms, validating compliance through detailed test execution and documentation to meet federal ICT requirements.
- Performed end-to-end testing of payment processing workflows, including EOD processing, loan origination, and servicing modules, to verify compliance with financial system requirements and data integrity standards.
- Analyzed and validated business requirements related to Late Payments, Returned Checks/ACH drafts, Over Limit, Declined Transactions, Inactivity, and Account Closing to ensure accurate implementation and compliance with financial system standards.
- Applied knowledge of Payment Card Industry Data Security Standard (PCI DSS) and IRS Mandate (Section 6050W) to validate compliance of financial transaction workflows, ensuring secure handling of sensitive payment data across web-based systems.
- Conducted QA testing on payment processing modules to ensure compliance with PCI DSS and IRS Section 6050W standards, verifying the effectiveness of fraud detection tools such as AVS and Credit Card ID for online transactions.

Cigna Health and Life Insurance Company

Sep '17 — Mar '19

Software QA Engineer

New York, United States

Responsibilities: Responsible for creating Test cases for the different module and performing different testing phases including Black Box, UAT, Usability, Negative, Regression, Integration, and Functional Testing.

- Created Test Scenarios and Test Cases according to the User Stories.
- Assisted User Acceptance Testing (UAT) to ensure application satisfies user needs.
- Participated actively in Daily Scrum, Sprint Planning, Sprint Review meetings to understand and analyze User stories for the sprint.
- Provided support in composing the Test Plan, Test Strategy, and Automation Framework Design Document.
- Compiled existing requirements, and Test Cases from various sources, and organized them into MS excel for a more centralized approach while adding new Test Cases. . Executed Functional, Regression, Compatibility testing and End-to-End testing as required on Web applications.
- Prepared the Test data for interpreting Positive, negative and regression test results based on the design requirements.
- Performed Automation Testing by Using Selenium WebDriver. . BDD Testing to validate the components displayed on the website using Selenium and Cucumber. . Compared and analyzed the Test Results for every release.
- Build complex SQL queries and performed validations using Microsoft SQL Server.
- Performed Integration testing and Cross-Browser testing on different versions of web-browser.
- Worked with 508 Compliance to facilitate website accessibility for all.
- Used Git to track changes in different versions and coordinating work on those versions among multiple team.
- Extensive use of Project Management tools JIRA, Defect Management tools, Build Management Maven, and Testing tools TestNG to enhance Regression Tests.

Capital One

Mar '14 — Aug '17

Junior QA Tester/Intern

McLean, VA, United States

Responsibilities: Assisted Agile Scrum teams in testing web applications by creating and executing test cases, validating functional requirements, and identifying defects early in the SDLC. Supported automation efforts using Selenium, Java, and SQL for data validation, and performed functional, regression, and cross-browser testing. Collaborated with developers and QA engineers, participated in sprint ceremonies, and used JIRA for defect tracking to improve product quality and test coverage.

- Collaborated with Agile Scrum teams to analyze user stories, define acceptance criteria, and design comprehensive test cases and scenarios, ensuring full alignment with business and technical requirements.
- Worked within Agile sprints to analyze user stories, define clear acceptance criteria, and design end-to-end test cases that validated functionality against business and technical specifications.
- Partnered with Agile Scrum teams to review user stories, establish acceptance criteria, and create detailed manual and automated test cases, ensuring complete coverage of business and technical requirements.
- Executed functional, regression, integration, and cross-browser testing for web applications using Java, Selenium WebDriver, and TestNG, validating UI behaviors and backend data integrity across multiple environments.
- Logged and tracked defects in JIRA, performed root-cause analysis with developers, and contributed to continuous improvement by enhancing automation coverage and CI/CD readiness through Git and Maven integration.

SKILLS

Programming & Markup HTML5, JavaScript, Java, XHTML

QA & Testing Selenium Webdriver, FitNesse, TestNG, JUnit, Apache Poi, Cucumber, SoapUI

Dev Tools & Platforms Jenkins, Maven, Web Concepts, Wireframe/Prototype, Responsive Web Design, Browser compatibility, Balsamiq, MS Visio, Eclipse, NetBeans, FontAwesome, Visual Studio, Brackets, Sublime Text, Atom, BrowserSync

Databases & Office SQL, Microsoft SQL Server Management Studio, MS Access, MS Office Suite (Word, Excel, Power Point, Outlook and Access)

Versioning & Collaboration CVS, GIT, GitHub, JIRA, ALM, Confluence, Rabbit MQ

Languages English

EDUCATION

Bachelor of Business Administration (BBA) in Management Information System, American International University Sep '02 — Apr '06
Dhaka, Bangladesh

- Completed comprehensive coursework in database management, software engineering, systems analysis and design, and business information systems, developing a solid academic foundation supporting advanced QA and automation testing expertise.
- Acquired practical knowledge of SQL, data modeling, and relational database structures through MIS curriculum components, reinforcing analytical accuracy essential for software quality validation.
- Completed academic research on digital transformation, enterprise systems, and IT security fundamentals, demonstrating scholarly engagement with technologies that underpin quality assurance frameworks.

CERTIFICATIONS

CompTIA Security+	May '21
Certified Tester Foundation Level (CTFL), ISTQB	Sep '21
Certified Tester Foundation Level Agile Tester (CTFL-AT), ISTQB	Aug '22
Certified Tester Advanced Level Test Manager (CTAL-TM), ISTQB	Aug '23
DHS Trusted Tester - 508 Certified Tester (U.S. Department of Homeland Security)	Jun '24
Advanced Selenium: Automation Frameworks	Feb '26
API Test Automation with SoapUI	Feb '26
Cybersecurity Foundations	Aug '26
AI Agents for Cybersecurity	Aug '26