MD MOYNUL ISLAM US CITIZEN

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**(860) 406-3927‬**

**PROFESSIONAL SUMMARY: -**

* Over 8+ years of experience as QA Automation Engineer and Software Development Engineer in Test (SDET) in the IT industry with experience in requirement analysis, design, development, and testing of Web Services, Client/server and web-based applications, Cloud applications, desktop applications and databases in a wide variety of projects and industries.
* Extensive working experience in .NET, JAVA, and Database applications on Windows and UNIX Environment.
* Extensive knowledge of Quality Center, Jira, QTest, Tracker, and Test Manager for Test management and Defect Tracking.
* Hands-on Experience in using test automation tools such as Selenium WebDriver/RC/IDE/Grid, QTP & Appium to develop automation testing scripts for Client Servers, Web, and Mobile applications.
* Good working experience in automating Rest API using Rest-Assured and Postman for manual testing along with swagger UI.
* Design and develop various test automation frameworks for testing Web Applications and APIs using TDD, BDD, Selenium, and Rest Assured.
* Expertise in using NUnit/XUnit/TestNG frameworks, NAnt/MS Build as a project-building tool, and Jenkins for continuous integration.
* Implemented Behavior Driven Testing with Java, Ruby, Selenium, and Cucumber, Test - Driven Testing with TestNG, and Junit.
* Develop applications using different J2EE Design Patterns such as Singleton, Business Delegate, Session Facade, Service Locator, and DAO.
* Experienced in working with various Python IDE's using PyCharm , PyScripter , Spyder , PyStudio and PyDev.
* Enabled continuous integration of the application using tools like Ready API, Jenkins, **XLR,** and **DDCT**.
* Experienced in developing and executing manual and automated tests in different platforms using **Python**, **Pytest**/**Unit test**/Robot, and the **Selenium** library
* Worked with **Jenkins** under the **CI/CD** pipeline providing continuous improvement to **Agile** Development.
* Experience in testing Web Services-SOA architecture, SOAP, and REST using various tools like SOAP UI/Ready API and Selenium.
* Experience with Visual Studio Team Foundation Server (TFS) / Visual Studio Test Professional.
* Experience in testing both SOAP and REST services using SOAP UI, Groovy Script, and Postman and Testing both XML and JSON formats.
* Good experience of software development in Python and IDEs : pycharm , sublime text , Jupyter Notebook .
* Use Tosca’s parameterization features to drive test cases with different data sets, ensuring comprehensive test coverage.
* Experience in Manual Testing, Automation Testing, **API Testing**, and Performance Testing of Web, IOS, Android, and Windows applications and experience in working with **SQL**, and NoSQL (Microsoft Azure Document DB).
* Extensive experience in Web Services, **SOAP**, and **REST API** Testing using **UFT API**, **Restful API**, **Rest sharp**, **Jmeter**, **Postman**, and **SoapUI**
* Worked in **DevOps**, installing, configuring, and integrating Automation scripts on Continuous Integration tools (**CI/CD**) like Jenkins for nightly test suite execution and working on knowledge on testing and configuring Amazon Web Services (**AWS**).
* Expertise in performing manual testing (emulators & IOS Simulators) & amp; Mobile Application Testing using **Appium**.
* Experience in working on functional testing of **SOAP** and **RESTful Web Services** using **SOAP UI** Tool.
* Experience in automating various web applications and web services using **SOAPUI** with JUnit and **TestNG**.
* Extensive recent experience in iPhone and iPad application development using Swift.
* Solid knowledge of **C#** using **Specflow** is a testing framework supporting **BDD** practices in **.NET** through the Selenium framework. I have been using the **ATDD** Acceptance test driver development cycle for **.NET** Applications so that we can define scenarios in plain English defined by **Gherkin** language that is understandable by anyone in the team.
* Experience in developing automated test scripts using **Playwright**, Selenium WebDriver, HP Quick Test Professional (**QTP/UFT**), **Java**, and **Python**, developing tests using **TestNG**, and Junit frameworks.
* Experience in working with Software Development (SDLC) and Software Testing Life Cycle (STLC) models - Waterfall, **Agile/Scrum.**
* Hands-on experience in Acceptance Test Driven Development and Automation of testing using the **Ruby** Language, and a focus on the Cucumber collaboration tool.
* Expert in **Agile** (**SCRUM** Software Development) and waterfall project methodologies. Able to manage large project teams and known for high-quality deliverables that meet or exceed timeline and budgetary target
* Expertise in Testing **REST API** using Robot Framework and **SOAP UI**.
* Involved in building automation framework from scratch using **Selenium Web Driver**, **JAVA**, **JUnit**, **Cucumber** (**BDD**), and Eclipse.
* Good experience with **Selenium IDE** in creating **C#** or **Java** test scripts for Black Box Testing and White Box Testing
* Experience in writing and executing **SQL** queries to perform Data Validation and back-testing of databases to check the integrity of data
* Good Experience in **Appium** for mobile testing in Android, IOS, and Mobile Applications.
* Proven ability in designing and creating automation frameworks for **J2EE**-based applications using Java, Junit, Selenium Web Driver, IDE, Grid, Maven, and TestNG.
* Experience in developing VB Script Functions and maintaining Function Libraries in **QTP/UFT**.
* Expertise in Microsoft **Azure** **DevOps** and **Jira** to manage the End-to-End testing.
* Experience in the design and development of Behavior Driven Development (**BDD**) framework from scratch by writing **Gherkin** Features-Scenarios Steps and Step Definitions using **SpecFlow** and **Cucumber**.

**TECHNICAL DOMAIN: -**

**Programming Languages -** C#, (.Net), Python, and Java, Ruby

**Technologies –** JavaScript, Typescript

**Databases -** SQL Server, Oracle, PL/SQL

**Automation Tools and Languages -**Selenium, Cypress, Specflow, Jenkins, QTP, Appium, Junit, and Rest Sharp

**Web Services -** SOAPUI (SOAP, REST), Ready API, Rest, Postman

**Automation Frameworks -** Unit Test,BDD/ATDD (Specflow), TDD

**Project Management / Defect Tracking Tools -** JIRA, Azure DevOps

**Methodologies -** Agile, Scrum,

**Cloud -** Microsoft Azure and AWS

**PROFESSIONAL EXPERIENCE: -**

## **SS&C Technologies (Hartford, CT)**

**Sr. QA Automation Engineer/SDET**  **JULY 2021 - PRESENT**

**RESPONSIBILITY**: -

* Designed and implemented robust automation frameworks using Selenium to support efficient and reliable testing processes.
* Involved in Functionality and regression testing during various phases of development using Selenium.
* Worked with Splunk as a user to monitor the application instance's health and performance.
* Leverage Cucumber's output to facilitate discussions with stakeholders, ensuring a clear understanding of test outcomes and promoting collaborative decision-making.
* Developed an end-to-end automation strategy using Tosca that includes defining test cases, reusability of modules, and optimizing test scripts.
* Coordinated all QA activities and enhancements using Agile Methodology.
* Integrated TestNG tests with CI/CD pipelines using tools like Jenkins, GitHub Actions, or Azure DevOps.
* Worked on creating Rest Services using ASP.NET Web API and C#.
* Worked on Protractor with Typescript and cucumber to write feature files to run Angular application test cases.
* Utilized Playwright's ability to handle multiple browsers like Chromium, Firefox, and WebKit to ensure cross-browser compatibility.
* Created automated test suite for iOS app using XCTest framework, XCUITest Library, and Swift.
* Use automation frameworks like Selenium, and Rest Assured to automate tests involving XML data.
* Developed BDD and TDD script with Cucumber and written step definition using Gherkin based features.
* Automate the APIs using Rest Assured.
* Implemented test automation scripts for mobile testing using Appium for Android and iOS applications.
* Created automation framework in Selenium WebDriver and NUnit using behavior-driven approach (BDD) approach like Specflow with Gherkin.
* Utilized SOAP UI to automate RESTful API testing and other workflows, enhancing efficiency in the testing process.
* Performing testing using SOAPUI on different data sources and validating the RESTful web services.
* Identify, document, prioritize, and track defects using agile-compatible issue tracking systems such as JIRA, Trello collaborating with development teams for resolution.
* Conducted daily Scrum meetings with the Product Owner, Scrum Master, and the Business and development team to verify bug fixes and update bug status for third-party applications.
* Configure Cucumber to generate detailed reports by using plugins like Cucumber Reporting or Allure).
* Executed SQL queries to validate the consistency of functional requirements of data in response to adding, modifying, and extracting data from an RDBMS database.
* Created automation framework in Selenium WebDriver and NUnit using behavior-driven approach (BDD) such as Specflow.
* Performed API and microservices testing using the Swagger API tool.
* Use generative AI to automatically create test cases based on application requirements, user stories, or existing test data.
* Developed C# scripts using Selenium web driver in N-unit to automate regression test cases.
* Executed UI functional, Smoke testing, and Rest API testing in Azure DevOps Release pipeline.
* Validated the data in the tables after performing CRUD operations connecting to the database from automation script using the LISA tool.
* Wrote Gherkin files that cover all the scenarios of the requirements matrix also updated existing files as the test scope is increasing.
* Designed and developed automation frameworks like BDD/TDD/ATDD using Specflow and developed Feature files, step definitions, and test runner with formatting.
* Regression test cases were written and automated using a robot framework.
* Utilized Playwright debugging features, such as taking screenshots and recording videos of test runs, to troubleshoot issues.
* Integrated Rest Assured tests into your CI/CD pipeline such as Jenkins, and GitHub Actions to ensure continuous testing of APIs.
* Using GIT as a version-control system for Team collaboration and Jira for project management purposes.
* Test APIs that send and receive XML data by validating request and response formats.
* Experienced in parallel testing using Cypress and Rest API automation using Cypress and JavaScript Rest API automation using Cypress and JavaScript.
* Use Tosca’s distributed execution capabilities to run tests across multiple machines, reducing test execution time and increasing efficiency.
* Created, validated, and maintained performance test scripts to simulate real-world user scenarios, focusing on high-traffic workflows, API endpoints, and resource-intensive transactions.
* Worked on SOAP and REST to carry out testing at the middle layer using SOAP UI and Postman, used SQL queries to validate the results in the Database.
* Actively participated in daily Scrum meetings and was involved in bi-weekly Sprint releases.
* Tests executed from use cases, test cases, test plans, and testing matrix. Testing performed via manual and automated testing as well as web service testing using SoapUI, Postman and or Rest and Selenium.
* Developed Cypress Test Framework with Page object model to enable functional UI Automation and End-to-end Automation with Jenkins Pipeline setup for continuous integration.
* Involved in automation of the test cases which tests the import adapter engine using NUnit.
* Worked on Azure DevOps (Visual Studio Team Services) Confidential to manage a backlog for the daily activities.
* Performed application testing utilizing the Scrum (Agile) methodology.
* Implemented Spark using Scala and Spark SQL for faster testing and processing of data.
* Performing duties of scrum master and running daily standups, organizing backlog grooming and sprint planning.
* Develop Automation test cases using Selenium in C# using Page Object Pattern, and Unit tests using NUnit.
* Performed functional, regression, smoke, system, UAT, and Black Box Testing using Windows and Mac platforms.
* Experience in checking logs using Splunk to identify issues.
* Automate stress tests within CI/CD pipelines, allowing stress testing to be part of the regular deployment process and ensuring performance remains consistent with code changes.
* Performed a hybrid role of business analyst and tester for the Agile development projects.
* Leverage Playwright's ability to test across different browser contexts and mobile devices.
* Developed framework from scratch for using Cypress to automate UI and used Javascript, NodeJS, and NPM for Angular-based user interface.
* Responsible for installation and automate functional test cases using TestCafe node.js using TypeScript.
* Used C# as a programming and language Visual Studios as IDE for automating the Test Suite with Selenium WebDriver.
* Implemented Behavior-Driven Development (BDD) in Xamarin using SpecFlow and refactored the existing codebase to support SpecFlow integration.
* Developed automation test scripts for POS applications by using the QTP tool.
* Generating Splunk Queries for reporting and Dashboard maintenance.
* Integrate your Appium tests with your Continuous Integration/Continuous Deployment (CI/CD) pipeline to automate testing as part of your build process.
* Prepare and manage realistic test data for performance test scenarios to ensure accurate and repeatable results, using production-like data sets where possible.
* Working on cypress for running e2e scenarios, Spec files by using Typescript and NPM for angular based user interface.
* DB testing and maintenance through MS SQL management studio.
* Analyzing and identifying root causes for the failures in production and QA environments using Splunk logs and fixing them.
* Use AWS services like Amazon CloudWatch for monitoring application performance and AWS X-Ray for tracing and debugging.
* Tested the encryption and decryption of login and Logout functionality that was developed in C#.NET
* Used APPIUM for creating a mobile app Authored and maintained Automation Selenium Web Driver scripts and Selenium IDE functions for regression and functional testing using JUnit framework.
* Used Azure DevOps, Octopus, and GitHub Actions to build the CI/CD pipelines.
* Automated all Test cases using selenium Web driver. Understands and implements scope for project in agile methodology, APM Process along with ATDD (Acceptance Test Driven Development).
* Conduct performance testing on client-side aspects, such as page load times, front-end resource loading, and user interface responsiveness, to ensure seamless user experience.
* Reviewed Manual testing methods and created GUI/Functional automation Test scripts in Mercury Quality Test Professional QTP and Selenium.
* Collaborated with the development team to analyze defects reported in JIRA and actively tracked them through to closure, ensuring effective communication and resolution.
* Validate interactions between .NET components and systems to ensure seamless communication and data exchange.
* Created API automation test scripts using Postman API and JavaScript / Newman command-line collection runner.
* Developed the Restful Web Services using Web API like Http verbs for CRUD operations.
* Used TestNG framework to run unit tests and Maven to build the Project.
* Developed and maintained automated test scripts using Playwright.
* Use Visual Studio for writing, running, and debugging tests in C#.
* Developed and executed test cases for EWS (Enterprise Web Services) /HTML/ RESTFUL services using SoapUI tool.
* Utilized tools such as Jenkins, CircleCI, or GitHub Actions to automate the execution of unit tests with every code change.
* Reported progress during daily Scrum of Scrum meetings, tracked daily advancements, and collaborated with component teams to address and resolve hotfixes promptly.
* Created team-specific agile process flow in JIRA to move tasks from one activity to another.
* Leverage Specflow for Behavior-Driven Development (BDD) in C# to write tests in a natural language format.
* Wrote acceptance test cases in a form of feature files using Gherkin keywords.
* Generate comprehensive test reports using plugins like Cucumber Reports or Allure to provide insights into test results and coverage.
* Worked on integrating GIT into the continuous Integration (CI) environment along with Jenkins and Azure DevOps.
* Identify, track, and manage system bugs using the issue-tracking tool Azure DevOps.
* Worked on creating Rest Services using ASP.NET Web API and C#.
* Use Sauce Labs’ reporting features to generate insights and metrics to share with stakeholders
* Analyzing and identifying root causes for the failures in production and QA environments using Splunk logs and fixing them.
* Involved in automation of the test cases which tests the import adapter engine using NUnit.
* Tested the Angular Web Application with Protractor, Jasmine. Implemented Page Object Model(POM) with Protractor TypeScript as well.
* Use Playwright ability to run tests across different browsers such as Chromium, Firefox, WebKit to ensure compatibility.
* Involved in the SDLC phase of requirement analysis, design, and development of the web-based intranet application tool using Web API and C#.
* Created and Executed Automated Coded UI Tests developed in .NET Framework.

**Environment:** Azure, Agile, Jmeter, Selenium, Rest Assured, Postman, Jenkins, SQL, Jira, AWS, REST,.NET, QTP, Cucumber, C#, BDD, SOAP, TDD, spec flow, Junit, JavaScript, Playwright, API, Appium.

## **Polaris (Rochester, MN)**

## **SDET/ QA Automation Engineer MAY 2018 – JUNE 2021**

RESPONSIBILITY: -

* Created an Automation framework for Selenium and API Testing
* Involved in the implementation of Data Driven Test Automation Framework build using Selenium WebDriver
* Created automated test suites using tools like Selenium, JUnit, or TestNG to test different layers of the J2EE stack, including web interfaces, business logic, and database interactions
* Writing Functional/regression Test Cases using JIRA with X-ray.
* Implement logging using the Python logging module to capture detailed information about test execution.
* Developed BDD tests using Specflow by writing behaviors and step definition
* Testing of Web Services using web services client generated using Apache Axis utility to track request and response SOAP Messages
* Write test scripts using JavaScript-based syntax within Postman to automate API tests.
* DB testing and maintenance through MS SQL management studio.
* Leverage Python to create tailored reports or integrate Locust with third-party tools for improved reporting functionalities.
* Performed Data driven testing using Selenium WebDriver and Junit functions which reads data from property and XML files.
* Use mocking frameworks (like Mockito) and dependency injection to isolate units of code for testing.
* Use TestNG assertions (Assert class) to validate expected outcomes and conditions within your test methods.
* Integrated SpecFlow tests into CI/CD pipelines to automate test execution as part of the build process.
* Responsible for developing test scenarios based on user stories and creating automation test suites using Python, Selenium WebDriver, and the Pytest framework.
* Use pytest parameterization feature to run the same test with different inputs, improving test coverage without duplicating code.
* Performed remote execution of daily smoke tests on the AWS cloud server with Jenkins and sent email reports.
* Reported software defects on JIRA and interacted with the developers to resolve technical issues.
* Tested custom web controls developed in ASP.NET for compatibility and system integrity.
* Writing test cases that have good coverage of requirements for making Test Driven Development (TDD), Behavior driven development (BDD) environment more successful with Gherkin language.
* Create test issues in X-ray for test cases, ensuring they include clear descriptions, steps to reproduce, expected results, and any relevant attachments.
* Utilized pytest fixtures for setup and teardown processes, allowing for reusable test setup code.
* Developed a Python-based AWS Lambda function to establish a security approval workflow and automate the removal of information related to terminated instances.
* Implementing infrastructure on new AWS systems and migration of existing Linux and Windows-based infrastructure to AWS and Azure Cloud platforms and automated using Terraform, Cloud Formation Templates.
* Proficient in comprehensive defect management, including tracking bugs and reporting them using ALM and JIRA.
* Developed an object model reference to customize Quick Test Professional (QTP).
* Implemented logging using the Python logging module to record detailed information about test execution.
* Execute Cucumber tests locally and in CI/CD environments (e.g., Jenkins, GitLab CI) to ensure they run automatically with every build.
* Regularly review your testing processes and pipelines to identify areas for improvement and optimize performance using Harness.
* Consider testing how the application performs under load for CRUD operations. Tools like JMeter can help simulate multiple users performing CRUD actions concurrently.
* Use PyCharm’s syntax highlighting to easily identify issues in your Python-based test scripts, making it easier to spot errors such as missing imports or incorrect syntax.
* Used Postman & SOAPUI for rest service testing.
* Set up monitoring and alerting mechanisms using Azure Monitor or other monitoring tools to proactively identify issues or anomalies in the behavior of logic apps. Monitor metrics such as execution counts, success rates, and error rates.
* Automated and customized scripts for the entire application using QTP.
* Verified the integration and interoperability between Cloud SQL and other components or services within cloud environments
* Developed automation framework for Selenium WebDriver in a modular framework model.
* Developed Cypress Test Framework with Page object model to enable functional UI Automation and End-to-end Automation with Jenkins Pipeline setup for continuous integration.
* Utilized Appium with Python bindings (Appium-Python-Client) to automate mobile application testing across both iOS and Android platforms.
* Use REST Assured’s built-in assertions or integrate with other libraries for complex validations:
* Developed framework from scratch for using Cypress to automate UI and used JavaScript, Node.js, and NPM for Angular-based user interface.

**Environment:** Cypress, Selenium, QTP, TFS, Specflow, API, Postman, Rest Assured, RestSharp, SOAP, Python, BDD, Azure, Cucumber.

## **White Castle (Columbus, OH)**

## **Test Analyst FEBRUARY 2016 - MARCH 2018**

**RESPONSIBILITY: -**

* Developed and implemented automation solutions using AWS, employing Eclipse IDE for code development and debugging.
* Possess extensive experience with QTP scripts, utilizing Standard, Text, Bitmap, and Table checkpoints, along with synchronization points to ensure precise and accurate testing outcomes.
* Developed a Java-based library to read test data from XML properties files using JUnit and Selenium, facilitating efficient test data management.
* Developed and implemented Continuous Integration (CI) practices by creating various build and deployment definitions in Jenkins for both .NET and Java applications, supporting both Windows and Linux environments.
* Set up multiple JMeter instances to distribute the load and simulate a large number of users. Configure one JMeter instance as the master and others as slaves.
* Implemented parameterization to run tests with varying inputs such as user credentials using CSV data files or JMeter variables.
* Working in Agile Methodology which allows detecting bugs at early stages of release, changing requirements, and implementing new features according to the market changes.
* Created automated test scripts using Selenium and Java for regression testing, ensuring robust verification of application functionality.
* Developed automated tests for unit, integration, and functional testing utilizing the Pytest framework, ensuring comprehensive test coverage and reliability.
* Use SoapUI built-in load testing features to simulate multiple users and analyze service performance under stress.
* Test MongoDB under extreme conditions to identify performance bottlenecks and potential failure points.
* Performed integration tests by executing the test cases. This may involve testing APIs, data integration, and system workflows.
* Develop detailed test cases and test scripts based on the requirements and design documents using Waterfall.
* Integrate your CRUD tests into CI/CD pipelines to ensure that they run automatically with each build, catching any regressions early
* Use the information from Redbooks to design your test plans, ensuring they align with the recommended configurations and best practices.
* Developed Behavior-Driven Development (BDD) tests using Cucumber by writing behavior and step definitions, and created the necessary Selenium support code in Java for Cucumber integration.
* Generated comprehensive reports utilizing JMeter plugins or external reporting tools such as Grafana and InfluxDB to visualize performance metrics and gain insights into application performance.
* Utilize Glue Job logs and AWS CloudWatch to debug issues and troubleshoot problems encountered during job execution.
* Use UiPath Orchestrator to deploy and monitor the robots executing these workflows.
* Use X-ray reporting features to track which requirements have been covered by your tests.
* Design and development of Data Access Module to handle the entire request from the application to the database using ADO.Net
* Use the Concourse web UI to monitor pipeline executions, view logs, and manage pipeline configurations.
* Integrated JMeter tests with CI/CD pipelines through command-line execution, enabling automated testing in non-GUI mode for efficient performance validation.
* Created and managed isolated virtual environments for different Python versions directly in PyCharm, which helps you test your code with various dependencies and version-specific configurations.
* Configure Bamboo to publish and display test results. Bamboo can parse test results from various formats (e.g., JUnit, NUnit).
* Responsible for verifying Web services API requests, response data validations in REST, SOAP protocols
* Created and maintained automated tests using QTP by coding in VB script.
* Set up distributed testing with multiple JMeter servers to simulate high loads from various geographic locations.
* Implemented performance testing using tools such as JMeter or Gatling, integrated with Sauce Labs to simulate load on applications and assess their performance under varying conditions.
* Automated the deployment of Ruby on Rails, Node.js, and Java applications with Jenkins and Azure DevOps, optimizing the release process and improving overall efficiency.
* Utilized Java and JUnit in conjunction with Selenium for test automation, enabling effective and efficient testing processes.
* Implement automated regression test suites to ensure ongoing quality and stability of the application using J2EE.
* Involved in extensive data validation using SQL queries and back-end testing.
* Implement automated tests for systems based on configurations and practices recommended in Redbooks.
* Implement and maintain automated test scripts using RestSharp to validate API functionality, including CRUD operations, authentication, and data validation.
* Developed automated test scripts using testing frameworks such as Selenium, JUnit, and TestNG to effectively cover black box testing scenarios.
* Ensure that the CRUD operations work well with the application’s components. This includes testing how the front end interacts with the back end during these operations.
* Managed and review logs generated by test scripts directly within PyCharm’s integrated log viewer. This is particularly helpful for debugging issues and analyzing the output of long-running tests.
* Involved in automating test cases using Selenium RC with Junit.
* Tested the RESTful calls (POST, GET, PUT, DELETE methods) using SOAPUI and Postman tool.
* Automated RESTful API testing using the Rest Assured library, performing CRUD operations with a strong foundation in Java.
* Configure Splunk to collect data from various sources like application logs, server logs, network devices, etc.
* Developed Rest API testing framework using Rest Assured.

**Environment:**  .Net, Azure, BDD, Java, Agile, SOAP, REST API, QTP, Appium, AWS, SQL.