**Mohammad Khairul Islam**

**US Citizen**

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**PROFESSIONAL SUMMARY**

* More than 6 years of experience in Software Quality Assurance with automated & manual testing of Web Application and Web Service API with specializing in software Test Automation and reporting.
* Experienced in analyzing business requirements and functional requirements specifications of an application and Tracking Defects using JIRA for Bug Reporting and Zephyr for managing test cases.
* Expertise in QA Principles and Process, SDLC, STLC, Bug life Cycle and development methodologies like Agile Scrum, Waterfall, RAD Model, V Model.
* Proficient in creating business based functional Test scenarios, Test cases, Test plans, Test Scripts, Test Execution, Test Specification documents and Traceability Matrix for Manual/Automation testing.
* Experienced in Functional Testing, UAT (User Acceptance testing), GUI, Unit Testing, Integration Testing, System Test, Sanity Test, Smoke Testing, Regression Testing, Black Box/Grey Box Testing.
* Good knowledge on Sprint Planning, Daily Stand-up, Defect Tracking & Defect Matrix Review Meeting.
* Hands on experience in Developing Automation Scripts, Execution and Analysis Test Results using different type of framework like Modular driven, Data driven and Hybrid framework, Keyword driven and Designing TDD framework using TestNG /JUnit as well as BDD framework using Cucumber following Gherkin format with Selenium WebDriver and Maven build tools to manage framework dependencies.
* Experienced in developing Page Object Model Framework using Page Factory in Selenium WebDriver.
* Extensively experienced in Cross-Browser and Parallel execution using TestNG by creating groups and running test cases in cloud services using Browser Stack, Sauce Labs and Grid for WEB.
* Experienced in using Jenkins as a Continuous Integration and Continuous Deployment (CI-CD) server to configure with GitHub, Maven as well as in testing XML parsers, DOM, XPATH, HTML, DHTML, XSLT SOA, ESB technologies and setting up all required nightly build jobs using Jenkins.
* Extensively experienced in developing Selenium Test Scripts using Java in Eclipse and IntelliJ IDEA.
* Working knowledge of Core Java and Object-Oriented Concepts (Inheritance, Polymorphism, Exception Handling, Multithreading and Collections Framework).
* Expert in manual & automated test procedures for Restful API Testing using Postman and Rest Assured and experienced in testing the application web services.
* Involved in Web services testing using REST-Assured to send request & validate response JSON.
* Highly analytical in developing the methods and measures to meet requirements & solve any issues that arise during the project and ability to adapt to a new environment & meet stringent deadlines.
* Experienced in proper business compliance and reporting the defects in HP ALM/Quality Center.
* Extensively experienced in SQL with Oracle, My-SQL for back end testing & performing Data Integrity testing by writing SQL Queries to retrieve data from Databases server to verify and validate data.
* Good analytical and communication skills and ability to work independently with minimal supervision and also perform as part of a team.

**TECHNICAL SKILLS**

**Testing Tools:** Selenium WebDriver, Selenium Grid, Jenkins, JIRA, HP ALM, Postman, Soap UI.

**Framework:** Junit, TestNG, TDD, BDD Cucumber, Hybrid, Page Object Model.

**Bug Tracking Tools:** JIRA, HP ALM

**Databases/Tools:** SQL Server, Oracle, MySQL, MySQL Workbench.

**Web Services Tools:** Rest API, Rest-Assured, Postman.

**SDLC Methodology:** Agile, Waterfall.

**Servers:** Web logic, Web Sphere, Apache Tomcat.

**Languages:** Java, SQL, PL/SQL, Java Script, XML, HTML, CSS.

**Version controls:** Git, GitHub, SVN

**Operating Systems:** Windows, UNIX/Linux, OS X.

**Build/CI-CD Tools/ Cloud Environment:** Maven, Jenkins, Browser Stack, Sauce Labs.

**IDE:** IntelliJ IDEA, Eclipse.

**Microsoft Tools:** MS Outlook, MS Visio, Microsoft Project, MS Word, MS Excel, Power Point.

**PROFESSIONAL EXPERIENCE**

**Cigna, Washington, DC**

**QA Automation Engineer September, 2019 – Present**

**Responsibilities:**

* Involved in Test strategy, prepared detailed Test plan and Test scenarios to test business requirements.
* Worked in an agile environment, with an ability to accommodate and test the newly proposed changes at any point of time during the release and tracked and monitored defects using JIRA.
* Wrote complex SQL statements to perform the backend testing of the Oracle database.
* Created and enhanced numerous test scripts to handle changes in the objects, in the tested application’s GUI and in the testing environment using Selenium.
* Performed Parallel, Cross-Browser Testing using Selenium GRID & involved in Automation of the test cases using Selenium WebDriver, TestNG and Maven and created an HTML test report for the entire test suite.
* Developed a Java based library to read test data from XML & Properties files using TestNG and Selenium and wrote acceptance tests using BDD Cucumber, Java.
* Involved in using CI CD Jenkins as a Continuous Integration server to configure with GitHub and Maven.
* Conducted Regression Testing whenever some code module was changed, identified risks and developed mitigation strategies.
* Executed the designed test cases using the POSTMAN tool, validated the JSON data for the given input parameters and performed GET, POST, DELETE operations on REST API and validated the results.
* Performed Regression testing on new builds, every modification in the application using Selenium.
* Implemented automation test scripts in Rest Assured for web service testing.
* Participated in enhancement meetings focused on making the product more effective in real time scenario.
* Played a major part in testing and timely delivery of the product, Analyzed Test Results and Test Matrix.
* Worked on User Acceptance Testing (UAT) with users along with providing training to end-users.
* Implemented Data Driven with BDD (Cucumber) automation framework using Selenium as Java Language.
* Maintained and analyzed large volume of regression test results using Selenium WebDriver.
* Designing and development of Page Object Model Test Automation Framework using Selenium WebDriver.

**Environment:** TestNG, Maven, Java, GitHub, MS SQL Server, PL/SQL, Windows, UNIX, Web Services, Cucumber, Selenium Grid, Selenium WebDriver, Rest API, Postman, XML, JIRA, MS Office Tools.

**MetLife, Brooklyn, NY**

**QA Test Engineer May, 2017 – August, 2019**

**Responsibilities:**

* Involved in coming up with the Design for Quality Assurance and System Testing keeping in mind the future requirements as described in the Software Requirements Specification.
* Involved in designing the overall Performance of Test Plan.
* Expertise in designing the Test Plans, Test Scenarios, Estimations, Development, Tracking Projects and scripting the Test Cases in order to test the application.
* Expertise in QA process and different levels of testing such as Unit, Functional, Regression and Integration testing with business scenarios.
* Developed automation framework for Selenium WebDriver in Page Object Model Framework for TDD (TestNG)and for Smoke test and Regression test to generate test execution result using BDD (Cucumber).
* Worked closely with clients in gathering and reviewing the business requirements for each Sprint/Release.
* Responsible for reporting and tracking the defects using JIRA.
* Used Java language and TestNG framework for scripting, Used Maven for building the WebDriver project.
* Developed a Hybrid framework using Java, Selenium WebDriver, TestNG, Maven and CI CD Jenkins.
* Created a Page Object Model Framework using Page Factory in Selenium WebDriver.
* Involved in creation of automation framework in Selenium WebDriver using behavior driven approach like Cucumber and performed Regression Testing for the new builds using Selenium WebDriver.
* Developed and debugged Testing Scripts for J2EE applications using JMeter and Coordinated the UAT testing by guiding the users during UAT.
* Design, develop and automate test scripts using RESTful web services (Rest API) using Rest Assured and postman for check the response.
* Involved in developing and executing automation Regression testing and System testing using Selenium.
* Created various data tables based on created templates for different states to execute batch files.
* Performed build acceptance testing and smoke testing using Cucumber automation tool.
* Developed and executed automation Regression testing and System testing using Selenium.
* Involved in using Maven build tools to manage framework dependency jar files.
* Involved in using Apache POI to read data from external sources to feed locators into the test script.
* Used Github as a source repository to share code within the office as well as with the team in overseas.
* Developed Java based library to read test data from XML & Properties files using JUnit and Selenium.
* Involved in preparation of Test Workflow Document and quality assurance standards as needed.
* Participated in building, deploying and troubleshooting the Application.

**Environment:** Selenium, JIRA, Cucumber, TestNG, Jenkins, SOAP UI, Maven, Github, Java, SQL, XML, API, Windows, Linux, MS Word, HP ALM, SQL Server, Postman, Rest API, Rest Assured.

**SallieMae, Reston, VA**

**Software Tester August, 2014 – April, 2017**

**Responsibilities:**

* Involved in gathering the relevant test data necessary for the test cases, based on the Business Analysis, Requirement specs, Business process Procedures, Scenarios, Transactions and Test Conditions.
* Executed test cases manually test cases logging defects in JIRA.
* Used the test management tool like HP ALM for requirements, test cases, tracking and logging defects and assigning priorities to defects.
* Formatted in requirement management and executed Test Scripts using Test Lab in HP ALM.
* Regularly met with business team to participate in requirement gathering and code review and wrote Test Scripts and Test Cases to meet assigned requirements with detailed attention in traceability matrix.
* Performed Black Box, GUI, Functionality, Integration and Regression Testing.
* Worked closely with Dev and Business team members to provide just-in-time test automation.
* Executed various SQL Queries to perform backend testing using Oracle and involved in writing SQL Queries to verify, validate and retrieved data from SQL database.
* Developed Hybrid Automation Framework in Java and Selenium.
* Configured Selenium WebDriver, TestNG, Maven tool and created selenium automation scripts in java using TestNG prior to Agile release.
* Performed Integration and Regression testing to check compatibility of new functionality, new builds or any modifications with the existing functionalities using Selenium WebDriver.
* Developed SQL queries for accessing the database for testing purpose.
* Developed automated scripts using Selenium and implemented framework for Selenium scripts using Java.
* Created and enhanced numerous Test Scripts to handle changes in the objects, in the tested application’s GUI and in the testing environment using Selenium.
* Involved in Test scenarios outlines and created feature files by using Cucumber.
* Involved in Automation of the Test Cases using Selenium, JUnit and Ant.
* Created JUnit HTML test report for the entire test suite.
* Interfaced with developers and participated in several walkthroughs to resolve the problems while executing the test scripts and ran Batch reports and compared the reports with the data in the original datasets.

**Environment:** SQL, JUnit, Ant, HTML, HP ALM, Selenium, TestNG, Jenkins, Cucumber, Java, MS Visio, MS Excel, MS Word, Windows, Linux.

**EDUCATION**

Bachelor Degree

**REFERENCES**

Available upon request