**Subu Subedi**

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**Professional Summary:**

10 years of extensive experience in Analyzing, Designing and Implementation of QA testing strategy for Web based and Client/Server applications using Manual and Automation testing. Data Analysis/ Batch Testing/ ETL and Testing of Software systems in Data Warehouse/ Business Intelligence/ Client-Server/ Relational Databases like SQL Server, Oracle and Web-based environments in Windows and UNIX platforms. Strong analytical, communication, problem solving, decision making and organization skills and an excellent team player.

* 10 years of professional experience in Information Technology as Quality Analyst with extensive experience in performing Manual and Automated Testing.
* Solid understanding and experience working on AGILE Methodologies and involved in all phases of Software Development Life Cycle (SDLC).
* Developed robust and maintainable test automation frameworks using core Java, leveraging key features such as inheritance, polymorphism, and encapsulation.
* Involved in analysis, design and quality assurance of Web-based/PC-based/E-commerce and Client/server applications for Financial, Retail, Airline, POS industries and others.
* Highly experienced in developing use cases, user interface specifications, and user requirement specification documents.
* Excellent skills in overall Defect Management/Problem Solving, which includes reporting and tracking bugs using JIRA, TFS.
* Proficient in using qTest as a robust test management platform to plan, organize, and execute test cases and test cycles effectively.
* Proficiently conducted end-to-end testing of mobile applications on a variety of cellular phones and tablets, ensuring functionality, usability, and compatibility across different devices and screen sizes.
* Knowledge in designing and developing Test Plans, Test Scenarios, Test Reports for Developed automated scripts in C# and Java using principles of object-oriented programming and BDD approach using tools like Specflow and Cucumber manual testing.
* Experienced in SQA (Software Quality Assurance) including Manual and Automated testing with tools such as Selenium RC/WebDriver/IDE/Grid and NUnit, Load Runner, JUnit, TestNG, JIRA, SOAPUI, Postman.
* Strong Knowledge and experience of all phases of SDLC (Software Development Life Cycle), and QALC (Quality Assurance Life Cycle).
* Expert on Selenium Automation using WebDriver.
* Proficient in using SoapUI/Postman for testing Web Services/API and used various types of assertions such as soap fault, Contains, Xpath etc.
* Extensive experience in automated testing using WebdriverIO to ensure the quality of web applications.
* Proficient in writing test cases, test suites, and test plans using WebdriverIO and integrating them with continuous integration and delivery pipelines.
* Familiarity with the Mocha and Jasmine testing frameworks and their integration with WebdriverIO for robust test execution and reporting.
* Continuous Integration Continuous Development (CICD) using Jenkins.
* Demonstrated ability to work on Workflow Diagrams, Entity Relationship Diagrams, and Data Flow Diagrams.
* Well versed in different management scenarios like Change Control, Quality Assurance, Defect Tracking, System Integration, and Task Scheduling.
* Good programming skills in C#, Java, SQL, PL/SQL and experience in SQL Server and MS-Access.
* Proficient in using basic SQL queries to perform backend testing for data integrity and validating stored procedures.
* Proficient in mobile automation testing using Appium with comprehensive understanding of all phases of Test Life Cycle, including requirements gathering, test planning, defect tracking, and reporting.
* Experience testing Mobile Apps on IOS and Android Platforms with Appium. Inspected the App using Appium Inspector on Different platforms.
* Extensive experience of working on both the web based and client server applications.
* Excellent team player with excellent interpersonal and communication skills.
* Experienced in testing web applications hosted in Microsoft Azure.
* Demonstrated ability to self-motivate and be flexible within a fast-paced environment.
* Extensively automated Regression and Functional test suites by developing test cases and test suites using Selenium WebDriver

**Technical Experience**

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| **Testing Tools:** | Selenium WebDriver, Selenium Grid, Quality Center, Postman, TFS, JIRA, SOAP UI, RESTful, HP ALM, Jenkins, Microsoft Test Manager, Appium |
| **Operating Systems:** | WINDOWS XP/VISTA/7/10, Linux and Mac OS. |
| **Language:** | JAVA, C#, HTML, Javascript, XML, SQL, PL/SQL, T-SQL, PowerShell |
| **Testing Areas:** | Regression, GUI, Functional (Integration, System, Smoke, Interface, Ad-hoc Testing), Non-functional (Performance, Batch job, Security testing), Black box, gray box, White box |
| **Defect Tracking Tools:** | TFS, Jira |
| **Database Language:** | MS SQL Server, MS Access, Oracle, MS Excel |
| **Methodology:** | Waterfall and Agile |
| **IDE** | Eclipse, IntelliJ, Visual Studio |
| **Test Framework** | NUnit, Junit, TestNG |

**Professional Experience**

**Charles Schwab, Westlake, TX Feb 2022 –Present**

**SDET/QA Automation Engineer**

**Roles and Responsibilities:**

* Actively involved in designing and developing test plans and functional test cases from business requirements and conceptual documents.
* Participated in test designing and plan reviews with peers and stakeholders to plan and determine the effectiveness of testing.
* Worked closely with Product Owners, Software Developers, and other QA team members and was involved in the entire Software Testing Life Cycle (STLC).
* Experienced with various test levels smoke, functional, usability, system integration, performance, regression, and user acceptance manually as well as automated those test scripts.
* Designed the automated test cases using the Selenium Web Driver using C#.
* Automated UI and API of the web-based application after completion of manual testing.
* Automating the manual test cases using Selenium WebDriver, using C#.
* Maintained and implemented Page Object Model design pattern along with Page Factory to separate the test script and locators.
* Utilized Core Java libraries to conduct extensive API testing, validating request and response payloads for accuracy, data integrity, and compliance with defined standards.
* Utilized ETL testing tools and scripts to profile data sources, identifying data quality issues, anomalies, and inconsistencies, and providing actionable insights for data cleansing and transformation.
* Created and structured test cases within qTest, including detailed steps, expected results, and attachments, ensuring clear and efficient test execution.
* Assisted in leveraging Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Developed and executed test scripts in Appium, ensuring consistent behavior and functionality of mobile apps across multiple operating systems and versions.
* Customized the seleniumTest as per the Test Case by using the C# Script.
* Used POSTMAN to manually test the Restful web services/ API using POSTMAN and validated the responses.
* Designed comprehensive test strategies and architectures tailored to microservices, including integration testing, contract testing, and end-to-end testing approaches.
* Automated web services/API using RestSharp to send the requests and validate the responses in JSON format.
* Set up monitoring and alerting systems for microservices, using tools like Prometheus or Grafana, to proactively identify issues related to service availability and performance.
* Created JMeter Test Cases to measure performance and functionality of web services.
* Extensively worked on JMeter to create Thread Groups and test Web Application for various loads on key business scenarios.
* Implemented data-driven testing methodologies in Core Java, allowing for dynamic test data manipulation and ensuring comprehensive test coverage across different scenarios.
* Executed test cases through qTest, recording test results, defects, and generating comprehensive test execution reports to communicate progress and outcomes.
* Submitted defects (bug) along with tracking, reporting, and re-testing of defects using Azure Devops.
* Automated mobile application test scenarios using Appium's driver-based approach, reducing manual testing efforts, and increasing test coverage.
* Designed and tested error-handling mechanisms and data validation rules within ETL workflows, effectively capturing and managing data integration errors and exceptions.
* Experience working in an Agile environment
* Participated in the release process through confirmation of QA status, post-release testing, daily product stand-up meetings, etc.

**Environment:** C#, Selenium Webdriver, POSTMAN, Cucumber, TestNG, Jenkins, Azure Devops, Oracle SQL, Maven, ETL , qTest ,microservices

**Aetna, Hartford, CT Aug 2020 – Jan 2022**

**SDET/QA Automation Engineer**

**Roles and Responsibilities:**

* Developed and executed the test scripts with Selenium WebDriver and Java.
* Responsible for Requirements Analysis, Creation and Execution of Functional & Integration Test Cases and end to end to Test Scenarios.
* Developed Test Plan and Test Cases for REST API/Web Services testing using Postman.
* Performed initial Smoke testing to determine if the Sprint deployment was stable enough to withstand a major testing effort.
* Prepared Automated Test scripts using Java, TestNG, Selenium web driver and Jenkins for UI automation functional testing.
* Proficiently utilized Core Java multithreading concepts to design and execute parallel test cases, optimizing test execution time and enhancing overall testing efficiency.
* Applied object-oriented programming principles in Core Java to design and develop reusable testing components, fostering code maintainability and scalability within testing frameworks.
* Define, develop, and execute automation test scripts using Java that leverage black and white box testing across functional, non-functional and performance testing.
* Used Selenium and Behavior Driven Development (BDD) approach using tools like Cucumber to setup test automation framework.
* Created the tests that have no user interaction as a set and executed them as Batch tests using Maven.
* Helped the team transition to WebdriverIO.
* Conducted testing within containerized environments to ensure the isolation and independence of microservices during testing.
* Integrated automated test scripts and frameworks (e.g., Selenium, Appium) with qTest, enabling automated test case execution and facilitating continuous integration and continuous testing (CI/CT) practices.
* Used WebdriverIO's built-in commands and APIs for browser automation, including element selection, manipulation, and assertion.
* Tailored qTest to match project-specific workflows, customizing fields, statuses, and workflows to adapt to the organization's unique testing and development processes.
* Used TestNG Annotations in Selenium WebDriver and executed a batch of tests as TestNG suite.
* Performed Assertions like Schema Compliance, XPath and SOAP responses.
* Developed Selenium scripts in TestNG for parameterization using Data Provider annotation
* Wrote SQL scripts to validate the data integrity/stored procedure, in the application.
* Experience in Data driven testing to validate the components on the website using Selenium.
* Worked with RestAssured library to test the restful api/web-services to validate the response and status code.
* Utilized qTest for test planning activities, including test case prioritization, test coverage analysis, and test cycle creation, ensuring efficient testing strategies.
* Implemented parallel test execution with Appium, allowing for simultaneous testing on multiple devices and reducing test execution time.
* Validated API gateways and service orchestration layers in microservices architectures, ensuring smooth communication and data flow among microservices.
* Ensured data privacy and security by implementing data masking techniques within ETL processes, protecting sensitive information during data extraction and transformation.
* Validate Web services/APIs built in SOA Architecture using SOAPUI.
* Used POSTMAN to manually test restful endpoints and validated the JSON response.
* Performed mobile application automation for iOS and Android using tool Appium.
* Set up monitoring and alerting systems to proactively identify ETL job failures, performance bottlenecks, and data anomalies, enabling timely issue resolution.
* Tested applications in all environments (QA, staging (UAT), Pre-Production, and Production).
* Established and maintained test cases and test data in JIRA.

**Environment:** Java, Selenium WebDriver, Cucumber, TestNG, Jenkins, SOAPUI, SQL, Oracle, Maven, IE, Firefox, Chrome, WebLogic, Windows, UNIX, POSTMAN, RestAssured, JIRA, qTest

**Nationwide, Columbus, OH May 2018 – July 2020**

**QA Automation Tester**

**Roles and Responsibilities:**

* Extensively involved in all stages of testing life cycle, Test Driven Development methodologies and Software Development Life cycle (SDLC) using Agile methodologies.
* Developed and executed the test scripts with Selenium WebDriver and C#.
* Worked existing Selenium Automation Framework with C# .NET using Data Driven Testing.
* Developed test cases for various scenarios based upon requirements, designs and specifications.
* Developed and executed Test Suites and Test Scripts based on the requirement documents and using TFS and Test Manager.
* Executed test cases manually and verified actual results against expected results.
* Detected, Reported and Tracked bugs using Test manager.
* Performed Sanity, Functional, Negative, Regression, System, Integration, End to End and Backend testing.
* Actively involved in using Test Automation Framework using Selenium Web Driver with C#.
* Worked on software Verification and Validation manually and use Assertions for automation.
* Validated Web Services and API manually and automation using Postman.
* Developed Test Framework in Selenium for UI Regression Test Automation and when necessary, and potentially execute Unit Test automation (C#).
* Validated data stored in MicrosoftAzure SQL Server.
* Automated ETL workflows and scheduling using tools like Apache Airflow or custom scripts, improving job orchestration and reducing manual intervention.
* Experienced in testing framework using Behavior Driven Development (BDD) tools like Specflow.
* Tested native mobile application knowledge in mobile testing using APPIUM in both IOS and Android applications using simulator and emulator.
* Performed Data driven testing using Selenium WebDriver, NUnitfunctions.
* Involved in Restful web services/API Testing using Postman.
* Automated the restful web-services/api using the HTTP-client library and worked on serialization/deserialization of the JSON object to validate the response.
* Performed functional, web services, API, backend, web testing.
* Performed API test by running company's API test driver pages with JSON outputs.
* Performed Smoke Testing to make sure all the Test Channels and Test Environment is working as desired.
* Performed Behavior Driven Development (BDD) testing using Specflowand Gherkin.
* Expertise in writing SQL Queries, SQL Scripts and performing database testing.
* Conducted backend testing using SQL queries to validate data for database and used SQL queries for retrieving data from database for executing user specific test cases.
* Developed and executed Load tests for performance testing the application using LoadRunner.
* Recorded LoadRunner scripts, analyzing results, reports and charts to see the response times of individual transactions with respect to the whole site.
* Handle High severity issues on priority.
* Involved in scheduling nightly jobs daily and weekly using Jenkins.
* Responsible for weekly status updates showing the progress of the testing effort and open issues to be resolved.

**Environment:** Selenium Web driver, NUnit, Specflow, Gherkin, Jenkins, MS Test Manager, Visual Studio, RESTful APIS, TFS, .NET/C#, SQL Server, MS Excel, Agile, Gherkin, Postman, BDD, HTTP Client Library

**JPMorgan Chase, Manhattan, NY Jan 2017 – Apr 2018 SDET/QA Automation Engineer**

**Roles and Responsibilities:**

* Responsible for converting automation scripts to the new framework using Selenium WebDriver, Java, and TestNG/Junit.
* Worked on Developing a framework from scratch for using Cypress to automate UI and used Javascript and NodeJS.
* Involved in developing and maintaining automated smoke and regression test suites in Cypress using JavaScript programming language and Mocha Framework
* 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.
* Analyzing application logs and troubleshooting issues related to HTML, XML, CSS, and JSON data formats.
* Worked with multiple automation tools like Selenium, Cucumber, Robot Framework, etc. to create a powerful automation framework that is robust, scalable, and easy to maintain.
* Involved in developing automation scripts for Mobile Native applications on iOS and Android platforms using Appium and Java.
* Performed Cross-platform, Functional, Regression testing, UI testing for mobile Native app, web apps and hybrid apps using Appium test automation framework.
* Involved in Designing Automation frameworks using Jenkins, Maven, TestNG, SVN, Eclipse, Java & WebDriver to test Load and Performance on different Server types such as HTTP, HTTPS, and database via JDBC and SOAP using JUnit.
* Automated Regression Test cases using Selenium WebDriver, Jenkins, and Maven.
* Worked on distributed test automation execution on different environments as part of Continuous Integration Process using Selenium Grid and Jenkins.
* Performed Data-driven testing by using JDBC as a SOAP UI data source and configuring MySQL queries to fetch data from the MySQL & DB2 databases.
* Implemented Continuous Integration & Continuous Development (CICD) using Jenkins Pipeline.
* Created JSON POST and GET requests for RESTful API services using POSTMAN to assert responses.
* Worked very closely with UI angular developers while automating the tests using Protractor and Jasmine.
* Involved in testing of services using SOAP/REST services using SOAP UI, and Groovy Script.
* Used Git, GitHub to maintain and manage build scripts and version control.
* Responsible for configuring AWS CloudWatch to monitor various resources such as EBS volumes, EC2 instances, ELB instances, RDS instances, and S3 buckets. This involves defining the specific metrics you want to monitor for each resource.
* Involved Designing and implementing automated testing frameworks for AWS cloud-native databases, including DynamoDB, Aurora, and RDS.
* Involved in designing and implementing automated solutions using AWS services such as EC2, S3, and Lambda.

**Environment**: Selenium WebDriver, Java, Cucumber, Jira, Agile (Scrum), Hybrid Driven, Page Factory, Oracle, SoapUI, MS Office, AWS

**Care Mountain, Plano, TX Apr 2015 – Dec 2016**

**QA Automation Engineer**

**Roles and Responsibilities:**

* Involved in developing web and desktop applications using C# .NET on Windows, and created back-end applications utilizing NodeJS and VB.NET for database interaction, user authentication, and business logic management.
* Worked with the developer to Design and implement automation frameworks using Java and Selenium to support continuous integration(CI) and delivery processes.
* Involved in developing and maintaining automation frameworks using Java, Javascript, nodejs, JSON, and other languages like XML, HTML5, and CSS3.
* Mentored and trained junior automation engineers on best practices for Cypress and JavaScript, resulting in improved team performance and knowledge sharing.
* Integrated Selenium, Cucumber, and UFT with other tools such as Jenkins, Git, and JIRA to support continuous integration and continuous delivery (CI/CD) pipelines.
* Created automation testing framework using Selenium WebDriver, Typescript, and Cucumber to design Automation test scenarios.
* Worked on test-driven development (TDD), Behavior-driven development (BDD), and acceptance test-driven development (ATDD) approaches.
* Involved in API testing using the Postman tool and Rest Assured. Also Performed Web Services Testing and XML validation by creating test case suite using SOAP UI.
* Involved in Developing and executing automated tests using Protractor and Jasmine to ensure the quality and reliability of web applications.
* Monitored and analyzed system performance metrics using JMeter and Gatling.
* Worked on distributed test automation execution on different environments as part of the Continuous Integration Process using Selenium Grid and Jenkins.
* Integrated Azure DevOps with other tools and services, such as Git, JIRA, Slack, and Azure Monitor.
* Developed and maintained test automation frameworks that utilized Azure cloud services and MongoDB NoSQL database for scalable and efficient test execution.
* Worked on Azure web application, App Services, Azure storage, Azure SQL Database, Virtual Machines, Fabric Controller, Azure AD, Azure Search, and Notification Hub .

**Environment:** Selenium Web driver, NUnit, Specflow, Gherkin, Jenkins, MS Test Manager, Visual Studio, RESTful APIS, TFS, .NET/C#, SQL Server, MS Excel, Agile, Gherkin, Postman, BDD, HTTP Client Library

**Ambit Energy, Dallas, TX Aug 2014 –Mar 2015**

**QA Tester**

**Roles and Responsibilities:**

* Used HP Quality Center for bug tracking and reporting, also followed up with the development team to verify bug fixes and update bug status.
* Worked with the developers to develop and maintain automated test scripts using Java and Selenium WebDriver for web-based applications.
* Assisted in developing new and updated existing automation test cases using Selenium WebDriver and TestNG, using SVN for java-based web application, using Maven as Build tool.
* Helped coordinate the Test Plans, Test Case preparations, Test Case execution, black box, white box testing, and gray box testing.
* Performed defect reporting and bug tracking using JIRA and also followed up with the development team to verify bug fixes, and update bug status.
* Utilized corporation-developed Agile SDLC methodology.
* Created test and tested Web-based and consumer applications, using manual and automation tools like HP ALM.
* Developed Test cases for manual testing and automated with QC and Selenium.
* Updated databases using SQL queries like Unions and Joins.
* Coordinate with other teams for complete System Integration Testing and Customer Acceptance testing
* Prepared Test Cases in Excel sheets and exported them to the ALM tool.
* Involved in the development of UAT Test Scripts, logging defects, and coordinating with the other members of the team for resolution.
* Performed back-end testing using SQL queries to validate the data in the back-end SQL Server.
* Performed XML and SOAP Request and Response validations in SOAPUI.
* Designed and Developed data validation, load processes, and test cases using SQL.

**Environment**: Agile, Windows, TFS, SQL, SCRUM, HP ALM MS Excel, MS Word, HTML, MS SQL

**Care Mountain, Plano, TX Sept 2013 – Aug 2014**

**Internship**

**Roles and Responsibilities:**

* Reviewed and analyzed Business Requirements and clarified with Business Analyst.
* Written several UNIX Scripts for invoking data reconciliation.
* Reviewed High Level and Lows Level Design docs and clarified design solutions with Developers
* Extensively executed SQL queries to view successful transactions of data
* Identified duplicate records in target tables.
* Experienced in writing complex SQL queries for extracting data from multiple tables.
* Involved in all walk throws for test designs, data designs and code reviews.
* Developed Test Plan, Test cases &amp; Test Scenarios for new features.
* Updated existing Regression Test cases for impacted features due to new features.
* Identified the Test Environment for Database Testing.
* Prepared Test status reports for each stage and logged any unresolved issues into Issue’s log.