**Arun Khadka**

**Automation Engineer/SDET**

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**PROFESSIONAL SUMMARY:**

* **Software Test Engineer** with **7+ years** of experience in web, client-server application testing.
* Quality-focused professional experience in **manual testing** and **automation testing**.
* In-depth knowledge of Software Testing Methodologies such as Functional testing, Black box testing, Integration Testing, Regression testing, User Acceptance Testing (UAT), System Testing.
* More than six years of testing experience related to risk assessment in Insurance domain projects throughout the career.
* Strong knowledge of **Software Development Life Cycle (SDLC)** methodologies such as **Agile** and **Waterfall** models and **TDD/BDD.**
* Knowledge of automation testing of web applications using **Selenium Automation** using **WebDriver**, programming using **Java**.
* Experience in applying **Testing Methodologies**, creating **Test Plans**, Executing Test Scripts, **Automation of Test Cases**, **Defect Tracking** and **Report Generation**.
* Experienced in **SQA** (Software Quality Assurance) including **Manual** and **Automated Testing** with tools such as **Selenium WebDriver/IDE, TestNG**, **Cucumber**, Quality Center/ALM, JIRA, and Maven.
* Experience in using **SoapUI** for testing **Webservices SOAP, REST** and used various types of assertions such as **soap fault, Contains, Soap not fault etc.**
* Knowledge in integrating Automation scripts (Selenium WebDriver API) on **Continuous Integration tools Jenkins for** nightly batch run of the Script.
* Experience programming in **Java**, **JavaScript**, **HTML**, **XML,** **SQL, PL/SQL** on Windows, Vista Operating Systems and **UNIX** environments.
* Knowledge of widely used JavaScript and TypeScript based web frameworks like AngularJS, Angular 2.0 and ReactJS.
* Experience and actively involved in building and **testing Restful Web services API** using **Postman** and **SoapUI**, for UI Integration.
* Knowledge in **Java** White-Box testing using **Eclipse IDE**.
* Experience in Configuring and testing **AWS** various services like EC2, S3, EBS, VPC, ELB, SQS, IAM, Route 53, Auto Scaling Cloud Front and Cloud Trail.
* Experience in test automation and continuous delivery of web applications, client server applications, **web services/APIs** Testing.
* Hands on experience in Performance testing tool **HP LoadRunner** (VuGen, Controller, Analysis).
* Experience in designing **Test Cases, Test Scenarios, Test Scripts** and **Test reports** of manual and automated tests.
* **Knowledge in all modules of Quality Center** (Requirements, Test Plan, Test Lab, Dashboard and Defects).
* Experience in performing different tests types, QA Methodologies: **White Box, Black Box**, Front-End and Back-End, Stress & Load, Regression, Configuration, Functional, Installation & Integration, Smoke, and User Acceptance Testing
* Well versed in different management scenarios like **Change Control, Quality Assurance, Defect Tracking, System Integration, and Task Scheduling.**
* Knowledge of defect tracking using **Jira, Quality Center/ALM.**
* Extensive experience in the design and implementation of fully automated Continuous Integration, Continuous Delivery, Continuous Deployment **(CI/CD)** pipelines and DevOps tools like **Docker**.
* Experience with database testing by writing SQL queries.
* **Excellent interpersonal skills**, proven team player with an analytical bent to problem solving and delivering under high stress environment.
* Good work ethics, detail oriented, fast learner, team oriented, flexible and adaptable to all kind of environments.

**TECHNICAL SKILLS:**

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| **SDLC Methodologies** | Agile/ Scrum, Waterfall |
| **Build/CI Tools** | GIT/SVN, Maven, Jenkins, Docker |
| **Automation Tools** | Selenium IDE, Selenium WebDriver, Protractor, HP LoadRunner, TestComplete, Cucumber, AEM, Apache JMeter, TestNG, SoapUI, Postman |
| **Framework** | TestNG, TDD, BDD, Data Driven, Keyword Driven, Hybrid and Modular Frameworks, Page Object Model, and Backend Testing |
| **Bug Tracking** | Jira, Quality Center/ALM |
| **Programming Languages** | Java, JavaScript, HTML and XML, AngularJS and Angular 2.0 Framework |
| **Database/Database tools** | MS SQL Server, MySQL, PL/SQL |
| **Cloud Services** | AWS based testing practices. |

**WORK EXPERIENCE:**

**Client: Bank of America, Charlotte-NC July 2021 – Current**

**QA Automation Engineer**

**Responsibilities:**

* Work closely with the Business Analysts, formulating test plans, preparing test cases, executing the tests, and fully documenting and reporting the results.
* Participated in **Agile** practices such and **Daily SCRUM, Sprint Planning and Retrospective** meetings.
* Expertise in planning, designing and execution of complex testing solutions including Functional, Regression, and End to End testing.
* Developed and executed **SQL** queries to perform **Back-End** testing for data validation and verification.
* Perfectly use of bug tracking tool such as **Quality Center/ALM and JIRA** for identifying, analyzing, documenting and reporting defects.
* Conducting different types of meetings and walkthrough, discussed the outstanding defects, informed the QA managers with the updated test status, etc.
* Uploaded test cases, executed test cases and logged defects in **Quality Center/ALM.**
* Experience in working **Agile development methodology (Scrum)** and **Waterfall** experience in **Functional Testing, Regression Testing, Integration Testing and User Acceptance Testing.**
* Applied test automation framework on **CI/CD** process using **GIT** and **Jenkins.**
* Build test Automation framework using Rest Assured API library.
* Proficient in writing test cases and test scripts manually and automatically and in-depth understanding of Software Test Life Cycle and Defect Life Cycle.
* Performed API testing in Postman.
* Wrote Test cases according to the BRD (Business Requirement Documents) in MS Excel and QC by following straight through the test plans and Test strategy guideline.
* Validating data tables deletion in SAP application using eVDM service account.
* Worked closely with key participants to understand and gather the business requirements and use cases.
* Interacted with developers and business analysts to assess the functionals requirements.

**Environment**: Java, Selenium WebDriver, TestNG, Jenkins, GIT, CI/CD, SQL, PL/SQL, Quality Center/ALM, **JIRA,** Windows, Postman

**Client: TXU Energy, Irving-TX Nov 2018 – Mar 2021**

**QA Automation Engineer**

**Responsibilities:**

* Developed test strategy for the minimal required tests that provides value in determining the quality state of the application.
* Developed/Updated System **Test Plan, Test scenarios** and **Test Scripts** as per the requirements and **Change Request** Document.
* Developed Selenium Automation framework – Created a hybrid framework (Keyword and Data driven) on Selenium using **TestNG.**
* Involved in running Selenium automation scripts and updating the scripts according to enhanced requirements using selenium **WebDriver.**
* Used **Java** language and **TestNG** framework for scripting. Used **Maven** for building the **WebDriver project**.
* Expert in Analyzing results using **HP Load Runner** Analysis tool and analyzed **Oracle** database connections, Sessions, Log files
* Identified test cases to automate. Automate those test cases using **Selenium WebDriver and Java (Eclipse IDE).**
* Developed and executed manual and automated tests in different platforms using Java and Selenium library.
* Integrate application through Microservices and render backend response through React Js and display content through **AEM**.
* Used Java as client library for **Selenium and WebDriver** to design and developed Automation test Framework using **TestNG.**
* Involved in acceptance testing using **Cucumber** and **Selenium WebDriver**.
* Used **Maven** for building the WebDriver project. Integrated with Continuous Integration tools **Jenkins** for running test on nightly basis automatically.
* Automated Smoke & Functional test cases **using Selenium WebDriver, TestNG & Java (Eclipse IDE).**
* Developing load testing scripts for performance testing by using **Apache** **JMeter**.
* Used **Maven** to build and run the Selenium automation framework. Once the script got over, framework used to send the automation reports over email.
* Created the tests that have no user interaction as a set and executed them as Batch tests using **Maven**.
* Involved in pushing the automated test code into CI (Continuous Integration) and monitored the test execution in **Jenkins** once the code pushed into CI.
* Used Selenium (data-driven) and **WebDriver** to test the web application.
* Involved in **SOAP & REST** based web servicestesting using **SOAP UI PRO** web services testing tool.
* Involved in automation of regression test cases and executing scripts using Test Harness & **SOAP UI.**
* Enabled Transaction demarcation in Data Access Objects.
* Uploaded test cases executed test cases and logged defects in **Quality Center/ALM.**
* Performed Back-end testing using SQL queries to make sure that data entered has been uploaded correctly into the database tables.
* Verified SQL queries against backend database to ensure test codes retrieve the right data on testing.
* Preparing status reports and End of Sprint demos to show case the work done in that sprint to the Stake holders (Product management, Customers, Clients).

**Environment**: Java, Selenium WebDriver, TestNG, Jenkins, AEM, Apache JMeter, Maven, Cucumber, SOAP UI, Eclipse IDE, Firebug, TDD, SQL, PL/SQL, Oracle, Quality Center/ALM,Windows

**Client: Bank of Hope, Los Angeles- CA Aug 2017 – Oct 2018**

**QA Automation Engineer**

**Responsibilities:**

* Active participant of QA reviews and inspections to find potential defects and recommend corrective action.
* Performed UI testing on various builds.
* Performed Cross- Browser and Cross –Platform testing to verify the application consistency on various builds in different web browsers and in different operating systems.
* Performed **Selenium Synchronization** using Explicit & Implicit waits.
* Dealt with Accessing Links & Tables using **Selenium WebDriver** and **C#** collections framework.
* Created test reports generated out of **Nunit** and captured the error screenshots.
* Worked on Capturing Screenshots on Failure or Pass to analyze the test failure reason. Coordinated with application team to ensure resolution of all issues and completion of work on time.
* Schedule and prioritize work and plan a sequence of testing activities that accomplish the planned targets. Set priorities and provide reports to the management.
* Performed regression testing on various builds for UI and Functional Validations.
* Worked on **REST** and **API Testing** for the various XML attributes for different kinds of report generation.
* Developed modular & robust automation framework using **Selenium WebDriver, NUnit and RSpec** and **C#.**
* Performed Load testing using **JMeter** and **Load Runner** testing tools.
* Implement **BDD** (Behavior Driven Development) Testing with **Specflow** and **Selenium WebDriver** to ensure the code reusability and code maintainability and cut down the script development time in half.
* Implemented Automated execution of tests (nightly and need based) using **Maven and Jenkins.**
* Developed manual and automated test cases to validate **RESTful API** web service.
* Tested web application build with MVC and component-based architecture with **Angular** framework.
* Involved in API and Web Services Testing using Rest API.
* Collaborated testing of web application built with **AngularJS** framework with MVC architecture and **Angular 2.0** with component-based framework.
* Developed re-usable function using **TestNG** for the Test Automation.
* Created automation test scripts using **Selenium WebDriver** and **C#** and involved in resolving existing test script issues in Selenium WebDriver.
* Executed tests and participated actively in system testing and regression testing.
* Worked with the **SQL** statements to extract data from SQL tables and verify the output data of the reports on the browser page.
* Used **CSS Selector** to identify objects.
* Contributed to components of the test automation framework, including the design, development, delivery and maintenance.
* Performed manual testing using different black box testing methods like ad-hoc, functional, UI, system, and regression testing.
* Used **Jira** daily tasks and test maintenance, respectively.
* Developed generic method to make the method reusable for multiple purposes.

**Environment:** C#, JavaScript,Selenium WebDriver, NUnit, dotNet, Postman, TestComplete, REST API, RSpec, JIRA, AWS, Eclipse, Jenkins, JMeter, HTML, XML, Angular 2.0, Agile (Scrum), JIRA, SQL, Oracle and Windows.

**Client: Disney Studios- Burbank- CA Oct 2015 – Jun 2017**

**Role: QA Automation Engineer**

**Responsibilities:**

* Involved in creating Test Plan and written Test Cases based on Use Cases and Business Requirements.
* Developed automation test suite from scratch with **Selenium WebDriver** with **TestNG** with Java for the application to help in regression testing.
* Involved in developing Framework from scratch using Selenium and working knowledge of automation frameworks like Hybrid, Data driven, Keyword frameworks and Page Object Model (POM).
* Developed QA processes automation test scripts using Selenium to test Web based user interfaces for different type of browsers.
* Implemented automation scripts for **Cucumber BDD** framework to test key Business Processes scenarios.
* Use mock services for functional testing and content management tool such as **Nuxeo** to retrieve pdf files.
* Performed test executions and wrote test scripts for complex integrated systems. Performed regression testing on new software releases and reports findings.
* Used **Soap UI** to conduct web services testing.
* Used **Selenium WebDriver** to handle various web page controls using locators like textbox, button, dropdown, checkbox, radio button, labels.
* Involved in **GUI** testing, integration testing, navigation testing, and regression testing using web-based application and client-server applications.
* Developed **BDD** tests using **Cucumber** by writing behaviors and step definitions and developed required Selenium support code in JAVA for Cucumber.
* Used **Selenium Grid, TestNG** test scripts to run automated test cases in parallel on 5 environments.
* Used Git repository for efficient remote team working, also stored the framework and all the developed test cases.
* Conducted **GUI** validations on menu bars, toolbars, textboxes, radio buttons, checkboxes, drop down lists, combo boxes, list boxes using Selenium
* Used Screenshots for bug reporting, analysis and exception debugging using Extent Reports reporting library with **TestNG**.
* Tracked defects using **JIRA** and generated defect summary reports.
* Identified test cases to automate and automated those test cases using Selenium WebDriver, TestNG, Apache POI and Java technologies (Eclipse IDE).
* Developed Test Automation Framework using Selenium WebDriver, TestNG, Apache POI under Java platform utilizing industry leading harness design patterns and approaches.
* Done testing of browser content and compatibility Tested compatibility of application using HTML IDs in Selenium.

**Environment**: Selenium Web Driver, IE, JIRA, Apache POI, Java, HTML, CSS, Nuxeo Studio, Windows, SQL, Maven, Git, SOAPUI, Cucumber, TestNG

**Client: Finance of America Mortgage, Horsham- PA Jun 2013 – Aug 2015**

**Role: QA Analyst/ Manual Tester**

**Responsibilities:**

* Understood and interacted with **Business Analysts** to determine functional specifications.
* Worked under **waterfall methodology** with understanding the Business requirements, application and function specifications.
* Documented **Test Scenarios** (positive and negative) and **Test Cases** based on the functional specifications.
* Responsible for **Black Box Testing** of the application.
* Prepared **Requirement Traceability Matrix (RTM)**to trace test cases to functional requirements. Involved in developing the tractability matrix in Excel sheet
* Involved in updating and executing test cases as per given requirements. Performed **GUI, Functional, Regression, Ad-hoc and Smoke Testing**.
* Coordinated the testing effort towards **End-to-End testing** to verify the proper functioning.
* Developed test scripts to **Performed Integration testing, System testing, Regression testing, User Acceptance testing (UAT) and Back End testing** of an application.
* Created Test input requirements and prepared the test data for data driven testing.
* **Data validation and Database integrity** testing done by executing SQL queries.
* Performed quality assurance reviews on all System Development Life Cycle phases.

**Environment**: Manual Testing, Quality Center, MS Excel, Waterfall.

**Education**:

Bachelors in Computer Science

Tribhuvan University