**Lakshmi Anusha**

**Lead Automation Test Engineer**

**Professional Summary:**

* 9+ years of experience in the IT Industry in Manual Testing (Web-based/ Mobile/ Backend/Database/API) and Automation Testing.
* Strong domain Experience in Banking/Insurance/Security/Auditing/Airline.
* Strong Experience in Automation testing using **JAVA with Selenium**, Javascript, **TestNG**, **Maven** & **BDD (Cucumber), and Postman.**
* Developed a comprehensive Test Strategy document outlining the infusion of quality throughout the Software Development Life Cycle (**SDLC**) process, ensuring alignment with project objectives and stakeholder expectations.
* Created a comprehensive test plan for an upgrade project, detailing testing approaches, methodologies, and timelines, ensuring alignment with project objectives and priorities.
* Collaborated with project managers, business analysts, and stakeholders to define testing objectives and priorities, fostering clear communication and alignment across teams.
* Identified risks and dependencies related to testing, and developing mitigation strategies to minimize potential disruptions to project timelines and deliverables.
* Led a team of testers, providing guidance, support, and mentorship to ensure the timely delivery of testing activities, while fostering a collaborative and productive work environment.
* Developed test strategies, test cases, and test scripts based on functional specifications and system requirements, ensuring thorough coverage of all relevant scenarios and use cases.
* Integrated Python-based test automation into CI/CD pipelines using tools like Jenkins and GitHub Actions, ensuring automated test execution on each build.
* Established quality assurance processes and standards to ensure the reliability, scalability, and performance of the upgraded system, conducting reviews and inspections of test artifacts to verify compliance with quality standards.
* Experience in preparing Test Strategies, Test Plans, and Test Summary Reports for Functional, Integration, Regression, User Acceptance, Stress and Performance, web service testing, and mobile testing.
* Implemented risk mitigation strategies throughout the testing lifecycle, proactively addressing potential issues to minimize impact on project outcomes.
* Served as the primary point of contact for testing-related activities, providing regular updates and status reports to project stakeholders, and facilitating effective communication and collaboration among cross-functional teams.
* Coordinated User Acceptance Testing (**UAT**) activities, including test case development, execution, and results analysis, collaborating with end-users and business stakeholders to ensure successful UAT outcomes.
* Evaluated testing processes, tools, and methodologies to identify opportunities for optimization and improvement, fostering a culture of innovation and excellence within the testing team.
* Designed Test Scenarios for various business entities and their relationships, facilitating thorough testing coverage and requirement validation.
* Established a **Traceability Matrix** correlating business rules, use cases, and corresponding test scenarios, ensuring comprehensive test coverage and alignment with business objectives.
* Formulated a detailed Functional Test Plan, encompassing the who, what, where, how, and why of each business function testing, facilitating efficient and effective testing execution.
* Orchestrated **User Acceptance** Test plan, actively involving users in decision-making processes regarding testing specific business scenarios, ensuring alignment with user expectations and acceptance criteria.
* Spearheaded various activities including **SQL** query creation for data validation, participation in requirement analysis meetings, and executing functional test cases, ensuring robust testing coverage and adherence to project timelines.
* Provided training to the user population on UAT tools, enabling stakeholders to effectively participate in the testing process and providing valuable feedback.
* Met with clients to identify and assess business control, risks and process gaps and work flow inefficiencies.
* Reported internal control issues to management and comprehensive recommendations to mitigate the associate's risks.
* Supported management through risk identification, **control testing,** and process improvement procedures.
* Performed operational audits and testing of internal controls within the Deloitte auditing system.
* Led automation testing efforts, including the creation of automated test scripts and coordination of the automation team, enhancing testing efficiency and reducing manual efforts.
* Expertise in writing **x-path** for different objects in Selenium WebDriver
* Implemented a BDD framework using Behave for a CRM application, improving communication between technical and non-technical stakeholders.
* Involved in **writing methods** and **test scripts** to automate test cases.
* Expertise in Object-Oriented Programming principles ( **OOPS** ), which enhances understanding of software design and testing methodologies.
* Experience in preparing **Cucumber** feature files (user stories) and automating the feature file using Selenium
* Extensively included in executing test scripts for Functional, Regression, and **UAT** test cases
* Experience in cross-browser testing and parallel Test Execution using Selenium WebDriver, and TestNG.
* Experience with client-server-based applications, configuring/deployment of WAR/JAR files using IBM Websphere for backend/frontend environment setup.
* Executed test scripts on different browsers **IE, Firefox & Google Chrome.**
* Experience in installation and Administration of various version control tools like **Bitbucket**, **GitHub, and GitHub Actions** and integrating them with **Jenkins**.
* Implemented and managed Continuous Integration/Continuous Deployment (**CI/CD**) pipelines to automate testing processes and enhance software quality.
* Leveraged expertise in **Azure DevOps, TFS, HP ALM, and Jira, Test Rail** Test Case management tool to organize, track, and execute test cases efficiently.
* Proficiently reviewed Release Notes for accuracy and completeness, analyzed test case failures, reported defects and created comprehensive test execution summary reports, ensuring clear communication of testing results and progress to stakeholders.
* Coordinated test artifacts for version control, designed reports to communicate quality progress, and conducted re-testing of defects as assigned, ensuring the integrity and reliability of testing processes.
* Validated screens for web accessibility compliance and created automated test scripts using JavaScript, enhancing testing efficiency and effectiveness.
* Validating data migration from source to target with data during different migration stages.
* Extensive experience in Functional testing, System testing, Regression Testing, and End-to-end testing.
* Worked on **Waterfall** and **Agile** Methodology.
* Experience in working on Hybrid, Keyword, and drive frameworks.
* Expertise in Understanding and Analyzing Test Requirements, Tracking changes and actively conducting meetings with Business Analysts, Developers, and Architects to understand requirements.
* Responsible to verify REST Web Services **API’s** request and to get valid JSON response for the following methods like GET, POST, PUT, and DELETE.
* Tested WebServices/XML/SOAP services using the **SOAPUI** tool.
* Experience using **Splunk** to monitor log files, databases, web services, and other types of monitoring endpoints.
* Involved in preparing **RTM** (Requirement Traceability Metrics).
* Experience creating SQL queries using **CRUD** operations to verify and validate table populatedness, and back-end processing.
* Expertise in working with Selenium IDE and Selenium Web Driver using TestNG for Automation testing.
* Good hands-on experience with various test management tools like **Jira, HP-ALM, TFS, Azure DevOps,** and Quality Center.
* Experience in writing CSS Selectors, and XPath expressions to identify web elements using Selenium Web Driver.
* Experienced in reading the test data from Excel spreadsheets using TestNG Data Provider for Selenium Scripts.
* Working experience with Firebug, Fire Path, **Maven**, and TestNG annotations.
* To handle unexpected pop-up that will prevent the WebDriver from locating a specific element/scrolling page/sending data to web element we have used a **javascript** executor.
* Conducted **API** testing using **Postman** to validate endpoints, payloads, and response data and Collaborated with development teams to troubleshoot and resolve API-related issues.
* Possess working knowledge of web ServiceTesting using SOAPUI Tool and Postman.
* Experience in Validating Web Service SOAP request and response XML and REST services.
* Responsible for checking cross-browser compatibility of different elements and tags, worked on different browsers like Internet Explorer, Google Chrome, Firefox, and Safari and with different operating systems like Windows, Android, and MacOS.
* Good knowledge of **Log4j**, **Unix**, **putty**, and **Splunk**
* Conducting manual testing processes efficiently and meticulously, ensuring comprehensive test coverage and accurate defect reporting.
* Experience in backend testing using various databases like **SQL Server, Oracle** by writing **SQL** queries using S**QL Developer and JDBC connectivity**
* Good understanding of the **OOPS** concept, **Method overloading, overriding, encapsulation, and Polymorphism**.
* Perform integration, system, and regression testing to launch automation suites via Jenkins jobs, and continuous regression testing.
* Implemented and maintained the monitoring and alerting of production, corporate servers, and storage using AWS cloud watch for efficiency.

**Technical Skills:**

**Software Testing:** Manual Testing (Frontend/Backend/API/Mobile), Automation testing

**Operating Systems:** Windows 7, Windows 8, Windows 10, Windows XP, LINUX, AIX, Solaris, Ubuntu, HPUX, Suse

**Programming Languages:** Core Java, HTML, LINUX/UNIX, Javascript, UFT, J2EE 1.8, XML, Web services, SOAP UI

**Database:** MY SQL, PostgreSQL, DB2, ORACLE, Cassandra, SYBASE, MongoDB, Vertica, MemSQL, DB Visualizer

**Tools:** GIT, SVN, Splunk, Postman, Rest Assured, IBM WebSphere, TFS, Azure DevOps, Jira, TestRail, HP ALM, ETM,qtest

**Automated Testing Tools:** Selenium Web Driver, TestNG, Jenkins, Cucumber

**Domain:** Banking, Insurance, Security, Auditing, and Airline

 **Professional Experience:**

**Ikon Systems Mar 24 - Present**

**QA Automation Lead**

**JetBlue -Project (Airline Flight Management):**

 Involve initiatives to streamline the booking process, enhance the usability of the website, or introduce new features based on customer feedback. It includes implementing recommendation engines for flight options, personalized promotions based on travel history, or customization of the in-flight experience based on passenger preferences.

**Responsibilities**:

* Requirement analysis and review of the scope of the business and assess the impact of functional and regression testing, come up with an integration testing plan.
* Intensively use JIRA for tracking all requirements, defects, and testing progress.
* Working in Agile methodology involving sprint planning and story refinement.
* Provided training and mentorship to junior QA team members on best practices for test automation and BDD methodologies.
* Work with the development team and the business analysts on daily basis for tracking changes to requirements.
* Review technical design, and design appropriate functional and regression test scenarios.
* Provide demos to stakeholders on the sprint-tested stories.
* Design & develop scripts using Postman, and SOAP UI to test Web Services.
* Used Javascript in Postman tool to connect to the database for automation of Web Services.
* Reviewed database test cases according to the assigned scope to validate reports by retrieving data with complex SQL queries from the Oracle database.
* Write and execute SQL queries which include joins and aggregates for Database level testing.
* Responsible for implementation of Hybrid Test Automation Framework (TDD/BDD) using Selenium WebDriver, TestNG, and Maven with Java.
* Developed robust error-handling mechanisms and reporting features in Python scripts to capture and log test failures and issues for analysis.
* Used BDD Cucumber with Gherkin language by creating the Features and Step Definition files to execute test scripts.
* Used Cucumber for browser-based testing with scenarios and situations.
* Developed and executed automated test scripts using Python and Pytest for embedded software projects, achieving 90%+ test coverage.
* Utilized various TestNG annotations to group Test Classes, methods, and suites; to pass parameters, and to generate reports containing test results.
* Provide extended auto reports in HTML & JSON format for BDD Framework.
* Used GIT for code repositories and Maven for the dependencies.

Environment: Selenium Webdriver, Web services, Jenkins, Maven, Cucumber, Postman, JIRA, TestNG, HTML, Java, Javascript, SQL, Jira, Agile Methodology.

**Persistent Systems                                                   Nov 21 - Feb 24**

**Lead QA Engineer**

**Project - IBM Guardium (Security Domain)/ Deloitte EMS/EA (Auditing Domain)**

**Responsibilities:**

* Helped to clearly define the team’s vision, strategy, and action plans.
* Effectively managed cross-functional company initiatives.
* Collaborated with managers and software engineers to reach goals.
* Facilitated daily stand-up meetings, sprint planning, retrospectives, and other agile ceremonies.
* Resolved conflicts and challenges within a team in a timely and effective manner.
* Received best shout-outs from Managers and Team in the current Auditing project for handling QA activities.
* Involved in executing test cases and logging defects in Jira/TestRail.
* Worked on DB testing IBM Guardium (USTAP) for different databases like  PostgreSQL, Cassandra, DB2, ORACLE, SYBASE, MongoDB, Vertica, MemSQL
* Configured different environments like LINUX, AIX, SOLARIS, and Kubuntu for testing in different platforms and databases.
* Worked on complicated customer defects reproduction and verification.
* Assisted in the adoption of BDD practices by developing feature files and step definitions with Cucumber.
* Created Python scripts to generate, manage, and clean test data, ensuring accurate and comprehensive test scenarios.
* Integrated Automation scripts (Selenium WebDriver) in Continuous Integration (CICD) tools for a nightly batch run of the Script.
* Supporting other team members with queries related to USTAP
* Developed and executed SQL queries in the database to conduct Data Integrity testing by checking the data tables on the server.
* Preparing Test Environment for other Team members
* Coordinating with the Onsite Team and Developers for project-related details.
* Dealt with Data center migration to Amazon Web Service (AWS) infrastructure and provided support to Applications and Database teams.
* Assisted in the adoption of BDD practices by developing feature files and step definitions with Cucumber.
* Met with clients to identify and assess business control, risks and process gaps and work flow inefficiencies.
* Reported internal control issues to management and comprehensive recommendations to mitigate the associate’s risks.
* Supported management through risk identification, control testing, and process improvement procedures.
* Performed operational audits and testing of internal controls within the Deloitte auditing system.

Environment: Selenium Webdriver, Java, Javascript, TestNG, PostgreSQL, DB2, ORACLE, SYBASE, Cassandra, MongoDB, Vertica, MemSQL, Suse, LINUX, AIX, SOLARIS, Kubuntu, Test Rail, Jira, DB Visualizer, GIT, Agile Methodology, API Testing

**Value Momentum Software Services PVT LTD       May 19 - Nov 21
Senior Software Engineer – Test**

**GEICO (Insurance Domain) Project – SSP**

SSP (Single sales Platform) is an application in GEICO, which provides auto insurance to customers. GEICO is a government employee insurance company which is an American auto insurance company.

**Responsibilities:**

* Testing of Sales website in different Operating Systems and View factors.
* Requirements gathering for the scrum sprints, preparation of test plans and test cases.
* Perform Sanity, Smoke, functional, UI, regression, system, negative, cross-browser testing, and Mobile testing (IOS/Android) after every iteration.
* Review of the test cases designed by the peers for effective test coverage.
* Preparation of Test strategies based on the clients' ad-hoc work.
* Implemented BDD using Behave to streamline test scenarios and enhance collaboration between development and QA teams.
* Perfomed Regression testing on new builds, every modification in the application using Selenium Webdriver.
* Created Test Plans, High-level scenarios, test case construction and test estimates, resource estimates, weekly status reports, and reports.
* Built custom test automation frameworks using Python to support functional, regression, and integration testing, ensuring scalability and maintainability.
* Maintenance of the Test plans traceability matrix, and monthly defects reports.
* Tested compatibility of application for dynamic and static content under various cross browsers using HTML IDs and XPath in selenium.
* Defect tracking, and RCA for bug slippage in each sprint.
* Created **RTM** and performed Gap Analysis to ensure the requirement coverage.
* Reviewed database test cases according to the assigned scope to validate reports by retrieving data with complex **SQL queries** from the Oracle database.
* Develop and maintain comprehensive test cases and procedures for all aspects of verification.
* Performed manual and automated **API** testing using Postman.
* Tested **Web API** using **Postman/ Rest Assured** to check if the **APIs** are returning the data in JSON, XML format, and documented APIs.
* Used the **Page Object Model** design pattern to create an Object Repository for web UI elements and **a driven framework** for reading the data from Excel sheets using **Apache POI.**

Environment: ETM, Java, Javascript, TestNG, Selenium WebDriver, Cucumber, TestNG, Platforms (Chrome/IE/Android/IOS) API Testing, Postman, Splunk, CI/CD, GIT, Maven, Postman, Rest Assured, TFS / Azure DevOps Test management tool, Eclipse, Agile Methodology

**Virtusa        Jul 15 - Apr 19**

**Engineer**

**Citi Bank (Banking Domain) Project – Global Interdict**

Global Interdict is a functional server that provides text-matching services. By comparing client-supplied text strings with text strings maintained on a database within the system, Global Interdict receives client requests to check text and returns the results in the form of detailed match information.

**Responsibilities:**

* Understand the client's requirements properly.
* Fairly interacted with the client and other team members for better understanding of the project in terms of the core functionalities of the system.
* Contributed to the implementation of BDD practices using Cucumber, developing feature files and step definitions to align with user stories and acceptance criteria.
* Involved in designing automation framework for application using Selenium WebDriver with **POM** approach.
* Involved in finding Page elements on different pages across different browsers.
* Involved in the development and review of Automation test scripts for the identified scenarios.
* Developed test automation scripts.
* Used Page Object Model (POM) to create Automation Framework using Java, Selenium Webdriver, TestNG, and Maven.
* Writing **SQL** Queries to prepare Test Data.
* Debugged and troubleshot complex embedded software issues, ensuring software met design specifications and regulatory standards.
* Knowledge of taking screenshots of executed test scripts.
* Handled the application by running through different run configurations like **TestNG**.
* Involved in Regression testing and Unit Testing.
* Logging the raised defects in **HP ALM**.
* Coordinating with Team Members for clarifications and requirements.
* Implemented a BDD framework using Behave for a CRM application, improving communication between technical and non-technical stakeholders.
* Hands-on experience in all levels of testing including Sanity, Functional, Regression, and re-testing.
* Identify Test Data requirements and prepare Test Environment and Test data by covering both positive and negative scenarios.
* Involved in Bug Review calls with the onsite development team.
* Analyze Load, Stress, Stability and performance of the application and identify the opportunities for performance improvement.

Environment: Selenium WebDriver,Java, Javascript, TestNG, API Testing, IBM Websphere, log4j , HP ALM, Linux/UNIX, SVN/GIT, Jenkins, Maven, Backend Testing,SQL, Waterfall methodology

**Education:**

Bachelor of Technology (Computer Science and Engineering) from K L University in the year 2015.

**Awards and Recognition:**

* Delivery Excellence at GEICO, Value Momentum (September, 2019)
* Achieved Contractor Recognition at Deloitte (December, 2023)
* Certified with Kore AI Basics and Kore AI Advanced, related to NLP.