**BOSCO JACOB**

[Jasmine@dncsglobal.com](mailto:Jasmine@dncsglobal.com) | +1-407-770-1097 EXT-102**|**

<https://www.linkedin.com/in/boscojacob/>

**USC - QA AUTOMATION ENGINEER**

**PROFESSIONAL SUMMARY:**

**9+ Years** of experience in the field of Software Testing with good exposure in Quality Assurance and Testing Process along with Automation Tools Expertise, testing Web-Applications and Mobile Applications using IOS and Android.

* Experience in all stages of the **Software Development Life Cycle** and QA Life Cycle and in all dimensions of Functionality, Usability & Reliability.
* Proficient in using test automation tools such as Selenium **WebDriver/IDE/Grid, QTP** and Quality Center to develop automation testing scripts for web and client server applications.
* Good experience in mobile testing using **APPIUM** in both **IOS and Android** applications using simulator and emulator.
* Knowledge of Automation Tool like **Selenium, protractor**.
* Good experience on Selenium Automation using WebDriver and Server. Heavy programming using **Java/C#, Junit,** **NUnit, TestNG, Cucumber, Specflow.**
* Expertise in functional testing **AUT** using Selenium IDE and Selenium WebDriver using Junit/NUnit/TestNG testing **framework.**
* Experience in working with Build Systems like **Maven** and continuous integration systems like **Jenkins, Azure DevOps.**
* Good experience in Web Services testing using **SOAP UI**
* Experienced in load and performance testing tool **JMeter**.
* Extensive experience in designing **Test Cases**, **Test Scenarios**, **Test Scripts** and Test reports of manual and automated tests.
* Experience in **unit testing**, **functional testing**, **user acceptance testing**, **integration testing**, **system testing**, **performance testing**, **sanity testing**, **exception testing**, **compatibility testing** & **security testing** of client/server and **web-based/mobile** applications.
* Excellent knowledge in writing unique **XPath** using firebug and fire path to identify web elements.
* Experienced in providing the efficient locators strategy like **XPath** and **CSS** to run **WebDriver** script in stable condition.
* Working experience with defect tracking tools like **Jira, Rally** and Test Director/Quality Center (QC) and **Team Foundation Server (TFS)**.
* Experience programming in Java, C#, Python, JavaScript, **HTML, XML** and SQL on Windows XP, Vista Operating Systems and UNIX environments.
* Expertise in performing the **Functional Testing, Regression Testing, Integration Testing** for the apps on different platform like **Java/C#.**
* Expertise in performing **manual testing & Mobile Application** Testing using **Appium**.
* Experience in both Waterfall and Agile project environments.
* Extensive experience with **Visual Source Safe** and Microsoft Office tools (MS-Word, PowerPoint, Excel, and Access).
* Proficient in testing databases of applications developed with **SQL Server, Oracle, and MS Access.**
* Strong in writing **SQL queries** to perform backend data validations
* Have built a test automation framework based on **Page Object Model**, **TestNG** and Selenium **Web driver**
* Excellent experience with source version control tools such as **Subversion (SVN)**, **Git and Azure Repo.**
* Excellent interpersonal skills, proven team player with an analytical bent to problem solving and delivering under **high stress environments.**
* Good analytical and **communication skills** and ability to work independently with minimal supervision and perform as part of a team.

**TECHNICAL SKILLS:**

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| --- | --- |
| Testing Tools | Selenium Web Driver/IDE/GRID, HP Quality Center, JUnit, Cucumber, Log4j, TestNG, SOAPUI, POSTMAN, Rest Assured, Appium. |
| Language/ Script | Java, JavaScript, C#, Python. |
| Build/ CI Tools | Maven, Jenkins, Azure DevOps. |
| Firefox Add-ons | XPath, Firebug. |
| Bug Tracking Tools | JIRA, Rally, Visual Studio TFS . |
| SOA Technologies | SOAP, REST, SOAP UI, Web Services. |
| Web development | JavaScript, Python, HTML, XML, CSS. |
| Frameworks | TestNG, TDD, BDD, Junit, Robot framework. |
| Databases Technologies | MS SQL Server, MS Access, Oracle PL/SQL, MYSQL. |
| Platforms | Windows, Mac, UNIX, Linux. |

**Work Experience:**

**Client: CPI Card Group, Nashville, TN**

**May 2023 – Present**

**Role: Senior QA Consultant**

**Responsibilities:**

#### Worked on the development of high-quality automation frameworks from scratch, utilizing tools such as Cucumber, TestNG, JMeter, and Postman for backend applications.

#### Designed and implemented testing strategies for backend applications, emphasizing robustness and coverage across unit, integration, and end-to-end testing.

#### Thrived in a fast-paced environment, adept at handling frequent context switching while maintaining quality and efficiency in testing processes.

#### Executed manual test cases for API calls using Postman, ensuring alignment with project requirements.

#### Actively participated in Agile development workflows, including daily standups, sprint planning, backlog refinement, and release cut-over calls, advocating for testing and code quality throughout the process.

#### Demonstrated proficiency in version control using Git, ensuring seamless collaboration and code management.

#### Effectively communicated testing progress, results, and concerns with team members and project stakeholders, ensuring transparency and alignment.

#### Created test cases and scenarios and executed them using Selenium and Java

#### Reported bugs and errors to development teams, maintaining detailed logs using JIRA to document testing phases and defects.

#### Took charge as a release engineer, ensuring smooth and efficient release processes aligned with high standards, and effectively communicated testing progress, results, and concerns with team members and project stakeholders

#### Collaborated closely with senior testers and team leads to understand test requirements and contribute to the development of effective test strategies.

#### Demonstrated strong troubleshooting skills, resolving issues across different environments, including Production, to maintain and enhance software quality.

###### Environment: Selenium, BDD, Postman, Cucumber, JSON, Git, Jira, MIRO, Windows.

**Client: Kroger, Cincinnati, OH**

**November 2022 – May 2023**

**Role: QA- Full Stack SDET**

**Responsibilities:**

* Wrote **Test Cases** for mobile based applications and worked with the team for designing the framework according to the requirement.
* Conduct physical and emulator **regression tests** on the latest **apk’s** for all capabilities.
* Prepared Automated Test scripts using **Java**, **Maven,** **TestNG**, **Selenium Webdriver** and **Jenkins** for **UI automation** and functional testing.
* Perform **configuration/ compatibility** and **user interface** testingmanually.
* Responsible for the execution of the Integration **Test Cases** and making sure the **data** is populating for all capabilities.
* Prepared Automated Test scripts using **Java**, **Cucumber** and **Selenium Webdriver** for **UI automation** and functional testing.
* Creating automation framework in **Selenium WebDriver** using behavior driven (**BDD**) approach with **Cucumber**.
* Work **on Jira Qmetry Test Cycle** pertaining to the stories, completion and execution of all manual and automation tests conducted.
* Worked on native mobile app testing for both android and ios using **Appium**.
* Extensive use of **Postman API & Microsoft SQL Server Management Studio** to validate databases and functionalities.
* Used **Appium** to create **desired capabilities** and connect to IDE using **appium** host for test execution.
* Designed the existing framework for testing Web application features using **Gherkin, Cucumber** and **Selenium Web Driver** for the web applications.
* Utilized **Android Studio** for **simulator** and **XCode** for simulator to work on Android and IOS applications.
* Implemented a **POM** based automation testing framework utilizing **Java, TestNG** and **Selenium WebDriver**.
* Utilized **UIAutomator**, **Appium Inspector** to inspect elements to locate elements to write test scripts and execute it.
* Validate **UAT testing** for all capabilities in the lab via **Alpha, Beta, Gamma, and Enterprise** testing.
* Do high level **smoke testing** for capabilities and new functionalities released for **APK’S.**
* Developed test automation scripts using **Selenium WebDriver** and **Java** for **regression and performance testing** of the various releases of the application.
* Created test cases manually to perform different types of testing such as **positive/negative**, **functional**, **black box** and **backend testing**.
* Used **TestNG Annotations** in **Selenium WebDriver** and executed a batch of tests as **TestNG suite**.
* Developed Selenium scripts in **Java** and **TestNG** for parameterization using **Data Provider annotation**.

**Environment**: Java, Maven, Selenium WebDriver, BDD, Cucumber, TestNG, Appium, Oracle database, Jenkins, Rest API, Postman, APK’S, GitHub, SQL Server Management Studio (SSMS)

**Client: State Farm, Bloomington, IL**

**March 2021 – October 2022**

**Role: Sr. QA Analyst - Web/Mobile Automation**

**Responsibilities:**

* Written **Test Plan, Test Scenarios,** **Test Cases** for Web based application and worked with team for designing framework according to the requirement.
* 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 Webdriver** and **Jenkins** for **UI automation** and functional testing.
* Performed **configuration/ compatibility** and user **interface testing** manually.
* Responsible for the execution of the Integration Test Cases and making sure the data is populating in the Integration areas of the modules.
* Created automation framework in **Selenium WebDriver** using behavior driven (**BDD**) approach with **Cucumber**.
* Extensively used **Page Objects design** and page navigation framework for readable test script and easy maintenance from developer perspectives.
* Worked on native mobile app testing for both android and ios using **Appium**.
* Used **Appium** to create **desired capabilities** and connect to IDE using **appium** host for test execution.
* Written feature file in **Gherkin language** and executed the step definition in **Cucumber** using **JAVA** for the test cases.
* Utilized **Android Studio** for **simulator** and **XCode** for simulator to work on Android and IOS applications.
* Utilized **UI automator**, **Appium Inspector** to inspect elements to locate elements to write test scripts and execute it.
* Integrated Automation scripts in **Jenkins** for nightly batch run of the Script.
* Developed test automation scripts using **Selenium WebDriver** and **Java** for **regression** and performance testing of the various releases of the application.
* Created test cases manually to perform different types of testing such as **positive/negative**, **functional**, **black box** and **backend testing**.
* Used **TestNG Annotations** in **Selenium WebDriver** and executed a batch of tests as **TestNG suite**.
* Developed Selenium scripts in **Java** and **TestNG** for parameterization using **Data Provider annotation**.
* Conducted **System Testing** and **User Acceptance Testing** for every client and Conducted Backend testing writing.
* Checked the data flow through the front end to backend and used **SQL** queries, to extract the data from the **Oracle** database.

**Environment**: Java, Maven, Selenium WebDriver, BDD, Cucumber, TestNG, Appium, Oracle database, Jenkins, Rest API, Postman

**Client: Humana - Louisville, KY**

**JAN 2019 – March 2021**

**Role: Sr. QA Analyst - Web/Mobile Automation**

**Responsibilities:**

* Developed test cases from **business/functional** requirements and uploaded in Azure Test Plan, so that all the test cases could be easily maintained and tracked.
* Performed System Integration Testing, and Functional testing across different browsers **IE**, **Firefox**, **Mac Safari**, and **Chrome** following **Agile** methodology.
* Tested Web app, Native app using **Appium** for automating the **mobile testing** and performing manual testing according to the requirements.
* Used **C#** to design an Automation framework to Validate **RESTful Web Services**.
* Used **Appium with C#**  design the automation script for the mobile applications.
* Performed **backend**/**ETL** testing for data validation using **SQL Queries** and validated data using **SQL joins.**
* Used **BDDframework** with **Specflow**, **C#** and created future files with scenario and scenario outline files.
* Proficient in Functional Testing Tool Quick Test Professional **(QTP/UFT)** and the various frameworks in **QTP/UFT**
* Performed Functional, Laboratory, Usability testing of the mobile applications across iOS devices, Android devices and Tablets.
* Involved in testing both **SOAP** and **REST** services using Rest Assured and tested both **XML** and **JSON** formats.
* Involved in testing of services using **REST** services using **POSTMAN.**
* Implementation of Selenium WebDriver automation **POM Framework** for **smoke** and **regression test**.
* Used **Simulators** to make replicas of mobile phones for testing purposes.
* Used **Azure Board** to capture, log and track the defects found during the testing cycle for all releases.
* Performed **ACCESSIBILITY TESTING** and ensured all Active Elements Receive Keyboard Focus and Ensure Keyboard focus is not provided to inactive elements.
* Attended **Daily Standup/Scrum** calls and weekly IT meetings for the project status, test case execution.
* Created Test cases using Element locators and Selenium **Web driver** methods.
* Responsible for execution of **Selenium** Test cases and reporting defections.
* Designed Functions Library Subroutines, **common functions, utilities functions**, Regular Expressions and **environmental variables**
* Tracked the working user stories and created defects in **Jira** for test management.
* Involved in Regression Testing using **Azure DevOps** repo and pipeline.
* Validated and Generated the Test Reports for all **test execution cycles** performed.

**Environment**: C#, .Net, Selenium WebDriver, BDD, Specflow, NUnit, Appium, SQL, Azure DevOps, Azure Board, Android Studio, POSTMAN, Agile

**Client**: **BOK Financial Corporation, Tulsa, OK**

**Oct 2017 to Nov 2018**

**Role: QA Analyst - Web/Mobile Automation**

**Responsibilities:**

* Designed Test Automation scripts for web apps using **Selenium Webdriver.**
* Designed Test Automation Framework for **REST WebServices** using **SoapUI with Groovy.**
* Designed ATDD framework for testing Web application features using **Gherkin, Cucumber and Selenium Web Driver** for the admin and provider web applications.
* Setup Maven Build tool for **ATDD** feature execution on eclipse.
* Implemented Data Driven Testing with Data Providers and Excels for **Selenium.**
* Used Stubbing technique for top-down **integration testing.**
* Executed **functional testing**, regression testing, **Server testing,** Network testing and medical device testing.
* Integrated **SOAP UI** Test Projects with **JUNIT** and developed a **MAVEN** build for nightly build triggers.
* Performed **Smoke tests** and baseline tests on every new build and build patches.
* Used **SQL queries** using SQL developer for verifying the data recorded by the applications in the database.
* Used **TFS** and Test Manager for test plan, design, execution, and Defects.
* Analyzed the **performance statistics** daily and reported the status in Dashboards to key stakeholders.
* Performed **root cause analysis** on test failures and opened defects in Microsoft Test Manager.
* Implemented Distributed testing using **Visual Studio Test Agent** and Controller software.
* Developed **SOAP UI regression automation** suite for REST and SOAP backend services.
* Integrated **SOAP UI** and **Selenium automation** suites with Jenkins for continuous integrations along with MAVEN.
* Used **POI API** Test data can efficiently read from excel.
* Involved in executing the test cases in mobile using **APPIUM.**
* Performed test in all kinds of apps like **Native apps, Web apps and Hybrid Apps** using Appium in both **Android** as well as **iOS** platform.
* Worked in gray box testing of Mobile apps in **Android, iOS, & proprietary platforms**
* Prepared, maintained, and executed **automated test scripts** throughout the testing phase
* Stored and maintained Automation test scripts suites in the **GIT.**

**Environment:** Java**,** Selenium Web Driver, Selenium Grid, SoapUI, Groovy, Gherkin, Cucumber, Appium [Android /iOS], Selenium Web Driver Setup Maven, Eclipse, JUNIT, SQL, Jenkins, Apache POI

**Client**: **FedEx Services, Collierville, TN**

**Sep 2016 to Oct 2017**

**Role: QA Analyst - Web Automation**

**Responsibilities:**

* Involved in creation of automated test cases for testing various **web modules** like supplier data, inventory tracker, exchange tracker, damage tracker.
* Identified test cases to automate the test cases using **Selenium WebDriver**, Junit, and Java (Eclipse IDE) and contributed to creation of the framework.
* Created all **Test Plans,** Test Cases and Manual and Automated **Scripts** to create greater coverage for all initiatives assigned.
* Designed, developed, and implemented a **POM** based automation testing framework utilizing Java, **TestNG** and Selenium WebDriver.
* Involved in Automation of the test cases using **Selenium and TestNG.**
* Responsible for back-end API testing with **SOAP UI** and coding in groovy and Java.
* Created tests with Assertions like Schema Compliance, SOAP, XPath **assertions** using **SOAP UI.**
* Involved in testing Web services and **XML** with a tool called **SOAP UI.** Used this tool to locate WSDL files on the internet, create Test cases, run them, do load testing, security testing.
* Validated **Web Service modules** using Soap UI tool (Preparing Web Service request and added authentication information in Soap Header). Used **SOAPUI tool** to test web services for Order History, Shopping cart, Account Creation and Shipment Tracking web services.
* Involved in the Continuous **Integration** of the automation framework with **Jenkins.**
* Worked with designing and building automation frameworks in **Cucumber BBD.**
* **Cucumber** was used for entire regression testing and functional testing with the primary tool as **Selenium to test Scenarios,** test Cases and Test conditions identified.
* Resolved **object** recognition issues using recovery scenario feature of **UFT**
* Compared the expected and actual results using multiple checkpoints for text, **GUIs,** bitmaps, and databases in the application with **UFT**
* **Used JIRA** for Identifying, logging, tracking and escalating bugs.
* Performed **smoke testing in UAT** and production environments for deployment verification
* **Actively** participated in daily scrum and sprint meetings as part of **Agile Environment.**

**Environment:** Java, Eclipse, UFT, Selenium, JIRA, SOAP UI, Junit, Cucumber, BDD, Agile,Mobile Testing

**Client: CIGNA, PHILADELPHIA, PA**

**July 2015- Aug 2016**

**Role: Junior QA Tester**

**Responsibilities:**

* Performed Functionality Testing and Integration testing using **HP** Quick Test Pro **(QTP).**
* Determined test approaches for various testing strategies like Functional, System, **Regression,** Usability testing, Alpha, **Beta** testing and executed using HP Quick Test Pro **(QTP).**
* Updated **test suites** and documents in accordance with the changes in requirements.
* Performed **analysis** on Test Case Coverage and tracked **Requirement Traceability.**
* Involved in using Quality Center for managing the defect. Performed **manual** Back-End testing by writing **SQL Queries** for validating user information in the tables.
* Developing Automation scripts using Descriptive Programming and maintaining Local and **Global Object Repositories in QTP.**
* Customizing the **QTP** using **VB scripts**.
* Parameterized the tests by entering different sets of data using **QTP.**
* Created **Scripts Modular batches** in QC and uploaded the scripts from QTP.
* **Rest Web Service testing** using Http Client Java library.
* Performed Manual Testing of this Web application and **automated it by using selenium.**
* Identified software defects and interacted with **developers** to resolve them.
* Performed **SOA** testing for Payments **APIs** using **SOAP UI** and Java framework for web services testing.
* Used **SOAP UI** assertions and Groovy script for web service Automation Testing.
* involved in developing Manual Test Cases for Functional testing, **User interface (UI)** testing and database testing to test **Application under Test (AUT).**

**Environment:** QTP, SQL Server, Quality Center, VB script, HTML, Java Script, SoapUI.

**References:** Available upon request.

**Education:** **Bachelor’s in Criminal Justice**