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**Summary**

* **8+ years** of software testing experience in Networking and health domain that focuses on a highly efficient automation of QA process.
* Strong experience in all phases of Software Development Lifecycle (**SDLC**) using Waterfall, Agile/Scrum.
* Experienced in **Software QA** (**Quality Assurance**) including **Manual** and **Automated** testing with tools such as **Behave, Cucumber, Selenium and Appium.**
* Used **BDD framework** to automate the manual test cases.
* Converted Manual tests into **Gherkin steps**, where cucumber feature files use Gherkin steps for executing the test case.
* Extensively used **REST Assured** to test REST API’S in **Cucumber**.
* Developed simple and complex **Shell scripts** based on requirement to reduce the manual efforts.
* Used different OOPS concepts of Java (**Abstraction**, **Encapsulation, Inheritance** and **Polymorphism**) in Automation to reduce the redundance of code.
* Used the different concepts of Gherkin syntax like **Scenario**, **Given**, **When**, **Then**, **And**, and **But**.
* Hands on Experience on Python concepts **Tuples**, **List**, **Python Dictionaries**, **Python Modules.**
* Worked on **Ansible** Playbook.
* Good experience in testing **REST** web services using **Postman** and Tested both **XML** and **JSON** formats.
* Experience in Automation testing using **Selenium Web Driver**/**RC**/**IDE**, **JUnit**, **TestNG**, **Maven**, **Ant**, **Cucumber** and **Soap UI**.
* Hands on experience in Unit testing by using **Fire Path**, **XPath**, **running scripts**, **debugging scripts** in different environment**, Extracting Test results**, **Cross browser testing**, and **data validation**.
* Exposure on **Scala** based REST development.
* Extensively used **Swagger** for API testing.
* Experienced in reviewing and analyzing business requirements and writing **detailed test plan**s, **scenarios,** and **test cases**.
* Experienced in Project building or management tool like **Maven.**
* Created **CI/CD** pipelines using **Jenkins** and **Concourse**.
* Experienced in using defect tracking tools such as HP Quality Center (**QC**)/Application Life Cycle Management (**ALM**), **JIRA** and **Bugzilla**.
* Experience in using **Splunk**, **OP5** for monitoring **logs** and **alerts.**
* Used different concepts of **Selenium** like RC, Web Driver, and GRID to inspect the Webpages.
* Extensively worked on **Agile Development** and management process.
* Experience in **Back-end testing**, **data validation**, **Database testing** using SQL queries.
* Performed **UAT.**
* Involved in **performance** testing in creating virtual users and testing **load**, **stress**, **database tests** using **JMeter**.
* Experience in **Smoke testing**, **Manual testing**, **Automation testing**, **Functional testing**, **Regression testing** and **Black Box Testing**, **White Box Testing** and **DB testing**.
* Experienced in maintaining the **Requirements Traceability Matrix** (RTM) and verifying forward and backward traceability between requirements and test cases.
* Used **ALM Octane** and **Excel** for traceability matrix.
* Well versed with **Testing Methodologies**, **Testing Strategies** and **SDLC**.
* Troubleshoot the automation issues and process the issues.
* Coordinating with Developers in fixing Defects and ensuring QA processes.
* Excellent skills in overall **Defect Management**/**Problem Solving.**
* Worked on **GIT** and **SVN** to maintain the source the code.
* Highly motivated, quick learner, effective communication, and strong analytical, organizational skills with an ability to get things done on time.
* Excellent interpersonal skills, proven team player with an analytical insight to problem solving and deliver under high stress environment.
* Strong organizational and communication skills, both verbal and written.
* Ability to understand client requirement and provide with the best solution.
* Has the motivation to take independent responsibility and be a productive team member, accompanying a strong programming and analytical background.
* Drive best practice, quality, and consistency with designed development phases.

**TECHNICAL KNOWLEDGE:**

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| --- | --- |
| **TECHNICAL SKILLS** | **EXPREINACE** |
| **Programming Languages** | C, C++, Java, Scala, Python |
| **Web Frameworks** | Scala Actors, Scala Akka, Scala Play |
| **Testing Framework** | Behavior driven development, Test Driven Development, Rest Assured, and gRPC |
| **Unit Testing** | Junit, TestNG |
| **IDE** | IntelliJ, Eclipse |
| **Databases** | Influx, MySQL, Cassandra, Redis, and Couchbase |
| **Browsers** | Internet Explorer, Google Chrome, Firefox |
| **Build Tools** | Maven, Gradle, ANT, Jenkins, Concourse |
| **Version Control** | CVS, SVN, GIT, Docker, Kubernetes |
| **Operating Systems** | Windows XP, UNIX, Linux, Mac OS |
| **Testing Tools** | Cucumber, Behave, Selenium, Postman, Swagger, JMeter |
| **Defect Tracking Tools** | Jira, Rally |
| **Other Tools** | WinSCP, Bugzilla, Splunk, OP5, TechMobile, Citrix, LegaSuite Windows Client, and Parquet |
| **Others** | Shell Scripting, MS Word, MS Excel, MS Outlook, and MS Power Point |

**Client: Comcast, Mount Laurel, NJ, 08054 March 2022 – Till Date**

**ROLE: Sr.QA Analyst**

**Responsibilities:**

* Responsible for **designing** **test cases** across various modules of **the Internet measurement platform** application for every release.
* Load **firmware** on all Comcast-supported RDKB models (**Arris XB3, Cisco XB3, Arris XB6, Technicolor XB6, Technicolor XB7, CommScope XB7, Technicolor XB8,** and **CBR**) and **RDKV** models follow-up with the RDK-B team to get the issues resolved.
* Extensive experience in **RDKB** **networking** **protocols**, including **TCP/IP, UDP, DHCP,** and **DNS.**
* Ability to **configure** and **troubleshoot** **DNS** servers, ensuring accurate and speedy domain name resolution for network users
* Experience in **configuring**, **managing**, and **troubleshooting** **TCP/IP** networks, ensuring reliable and efficient data transmission
* Skilled in utilizing **UDP** for real-time**, low-latency communication** applications (Latency Under Load and Ultra Low Latency), ensuring optimal performance and minimal packet loss.
* Responsible for **troubleshooting** and **triaging device issues.**
* Work with development, product, and operation teams to achieve **maximum coverage** on applications in various environments.
* Responsible for creating a **QA RDKB** playbook for every speedtestclient release, documenting the test data and communicating with **RM** to get the release approved.
* Participate in meetings with partners such as Shaw, Cox, Rogers, and Sky-UK, understand their needs, design plans along with the engineering team, and provide support.
* Responsible to **SSH** into RDK-B gateways remotely using **Jump Server** and performing operations such as **traceroutes** and **rebooting** the gateways, **capture CPU** and **memory usage** etc...
* Support Comcast-supported partners across the IMP application.
* Responsible for validating different **batch** and **streaming** jobs hosted on **Spark3** and **AWS** environments as required.
* Extensively use **Parquet Tool** to read data from **Parquet files**.
* Designed the test automation using **TestNG** framework to test the **gRPC** APIS functionality along with REST Assured and web-based email functionality using **Selenium WebDriver**.
* Extensively used **XPath** to locate the elements, **Firebug**.
* Extensively worked on **Cross browser** testing on the email functionality in **Chrome**, **Safari**, **Edge** and **Firefox** using **WebDriver**.
* Identify the test cases fall under different phases of the validations, using **groups** functionality of TestNG performed the validations using Automation.
* Extensive experience with **gRPC** **protocol** buffers, building **requests**, and handling **results** within an automation framework.
* Develop, enhance, and maintain automation code using Core Java concepts such as **Inheritance**, **Abstraction**, **Encapsulation**, and **Polymorphism**.
* Use **IntelliJ** IDE to develop the code.
* Responsible for **writing simple** **and complex shell** scripts to reduce manual efforts and create **Cron jobs** on **virtual machines**.
* Participate in code review calls to ensure code quality and compliance.
* Work with **MySQL** and **Redis** databases.
* Write **simple** and **complex SQL queries** using concepts such as Joins, Select, Insert, Delete, Creating, and Dropping tables.
* Develop **Gateway Speed Test accuracy scripts** to run measurements on all Comcast and Syndication-supported Gateway models using Java, which writes accuracy data to a CSV file.
* Use **Insomnia** and **Swagger** to test different response codes and response data of **REST** and **gRPC** APIs.
* Use **JMeter** for **load testing**.
* Use **Concourse** to set up **CI-CD** pipelines for different modules of the IMP application for all partners.
* Use **Splunk** to monitor logs.
* Use **OpenShift** **Web Console** to terminate and restart Gateway pods.
* Use **AWS** **CLI** to perform various operations, including restarting application pods, monitoring application logs, and checking pod uptime.
* Responsible for deploying **EMR serverless** jobs in AWS in the QA environment.
* Maintain device data in **Couchbase** in QA and Stage environments by performing operations such as Delete, Insert, and Update.
* Extensively used **Parquet** tools to read the data from parquet files.
* Work in a highly **Agile environment** and participate in **Scrum** and **Retrospective** meetings.
* Responsible for **documenting** **test activities**, **reporting** any defects found during testing, and **signing off** on releases.
* Use build tools such as **Maven**, **Jenkins**, **Concourse**, and **GIT**.
* Use **JIRA** for tracking the tickets and defects.
* Use **ALM** to maintain the test cases traceability.
* Mentor new team members, assist them in the onboarding process, and guide the offshore team in daily activities.

**Environment:** *Java, REST Assured, gRPC, TestNG, Selenium IDE, Selenium RC, Java Script, AWS, Parquet Tools, IntelliJ, Shell Scripting, RDK-B Gateways (AXB3, CSXB3, AXB6, TXB6, TXB7, CSXB7, TXB8n and CBR Technicolor),RDKV, Network Protocols(* TCP/IP, UDP, DHCP,DNS) *Syndication Partners (COX, SHAW, ROGERS, and Sky), MySQL, Redis, and Couchbase JMeter, Maven, AWS, Jenkins, Parquet tools, Concourse, GIT, Splunk, OpenShift Web Console, Insomnia, Swagger, Agile Methodology.*

**Client: Charter Communications, MO March 2021 – March 2022**

**ROLE: QA Engineer**

**Responsibilities:**

* Analyze business requirements and functional documents, created the test strategy document that define the test environment, phases of testing, entry and exit criteria into different phases of testing and resources required to conduct the effort.
* Create Billing orders in Citrix at different billers **CSG** **QAHA**, **CSG QAKA**, **ICOMS**, and **BHN** which is called Day of Order (**DOO**).
* Activate the Order from Spectrum Tech Mobile Application which is called Day of Job (**DOJ**).
* Responsible to select appropriate devices from the tech buffer to activate different requested services from Spectrum Tech Mobile (**TM**) application based on the billing order.
* Validate the Orders in Unified Inventory Management (**UIM**) and Oracle Service Manager (**OSM**) and Databases as part of Order creation and activation.
* Use **SQL** Developer workbench to cross-validate the UIM, OSM, and Tech Buffer databases.
* Responsible to understand the business requirement and preparing a test plan, test scenarios, and signing off the build release.
* Required to attend the Scrum meeting to give a quick update on the daily status.
* Responsible to identify the test cases and segregate the test cases that came be automated and automate them using Selenium, **Cucumber** and **JMeter** as part of regression.
* Create detailed test cases in ALM.
* Use **JIRA** as a ticket tracking tool to track the defects and send the Status report to the team as well as to the stakeholders of the **FTTP** project.
* Identify and troubleshoot the failures in automation framework and work towards framework improvements.
* Use Postman and Swagger to test **REST API’S.**
* Responsible to develop test cases as per business requirement and maintain a traceability matrix in **ALM**.

**Environment:** *Java, RES Assured, Maven, Eclipse, Citrix, LegaSuite windows client, Swagger, Postman, Selenium, Cucumber, TestNG, JMeter, REST API, SQL Developer, Excel, ALM, JIRA, Jenkins, and Windows*

**Client: Comcast, NJ August 2018 – March 2021**

**ROLE: Software Engineer in Test**

**Responsibilities**:

* Responsible for **SSH** to **VNF** using **PuTTY** and performing different operations including getting CM MAC details and **DHCP** lease times.
* Create and Modify the **Ansible** script based on the requirement to generate fake subscribers to analyze the load on VNF.
* Used JMeter for performance testing of VNF.
* Exposure to the development of Scala-based written web applications using **Actors**, **Akka**, **Play Frameworks** and **Influx DB.**
* Designed and Developed the BDD framework using **Cucumber** to for REST API automation testing.
* Responsible to write feature files using **Gherkin Syntax** **feature**, **scenario**, **given**, **when,** **then**, **and**, **but**, as part of the application development that works with cucumber and Behave framework which uses Gherkin language.
* Used **cucumber annotations** @**Before**, @**After**, @**Step**, @**BeforeStep**, and @**AfterStep** etc.
* Used different **CucumberOptions** like **features**, **glue**, **tags**, **dryRun**, etc.
* Actively used **Cucumber** **CLI** options to override default cucumber behavior.
* Designing the test cases using **Scala Test** and developing its implementation steps using **Scala**
* Extensively used Regular Expression for pattern matching.
* Use **TCP** Replay as part of DHCP snooping technologies.
* Migrate existing Cucumber Java automation project to **Python project Behvae**.
* Store all the common functionalities required for automation projects in a common place and use those common functionalities by generating a version tag for every code drop.
* Use **Context** which is an inbuilt functionality of **behave** to use the response from one step to another step in the same scenario.
* Create a feature dictionary by using **dict()** python library to use the response from one scenario to another scenario in the same feature file.
* Validate various types of response codes such as **200**, **201**, **400**, **404**, **500**, and response body in automation.
* Use Splunk for monitoring application logs.
* Perform black box testing to validate the databases like **Cockroach**, **MongoDB**, and **Influx**.
* Responsible for SSH to VNF using PuTTY and performing different operations including getting CM MAC details and **DHCP** lease times.
* Developed Ansible script using Python to generate fake subscribers to analyze the load on VNF.
* Create a test case in **ALM** based on the business requirement document to provide the maximum coverage of vSG use case Usage Billing.
* Developed Java-based Automation framework for vSG in Cucumber which reduced the regression cycle from one week to one day.
* Logging frameworks **log4j** and **sjf4J** are used for log messages.
* Set up the Automation framework using Selenium WebDriver to run test cases in multiple browsers and platforms.
* Create automation test suites for progression & regression testing in SOAPUI. The messaging formats included SOAP over **HTTP** and **REST**-based clients with **XML** Payload.
* Create custom JSON/XML Assertors for validation of SOAP (WSDL), and REST API calls.
* Automate the Swagger API in Cucumber using feature files.
* Prepare the Test Plan and the Test Strategy for every release.
* Validate the Swagger API response using **assertEquals** and **assertNotEquals** functionality of **REST-assured**.
* Identify the test cases for **Smoke testing**, **Manual testing**, **Automation testing, Functional testing, Regression testing, Black Box Testing, White Box Testing,** and **DB testing.**
* Prepared the Traceability matrix in **ALM** Octane between requirements to test cases mapping to make sure every requirement has been covered in testing.
* Maintain **CI/CD** by creating a **Jenkins** job for Automation.
* Use the **OP5** tool for monitoring the alerts.
* Use **Splunk** to monitor the application logs.
* Responsible for provisioning cable modems and enabling the Port forwarding.
* Perform black box testing to validate databases like **Influx DB**, **Cockroach**, and **MongoDB**.

**Environment**: *Java, Python, REST Assured, Selenium, Scala, Actors, Akka, Play, Behaver, Cucumber, Behave, BDD, Logback, IntelliJ, REST, HTTP, Eclipse, IntelliJ, Splunk, OP5, Excel, ALM, JMeter, Jira, GIT, Jenkins, Influx, Cassandra, Windows, and Linux*

**Client: CNSI, MD August 2016 – July 2018**

**ROLE: Quality Assurance Analyst**

**Responsibilities**:

* Analyzed business requirements and functional documents, created the test strategy document that define the test environment, phases of testing, entrance and exit criteria into different phases of testing and resources required to conduct the effort.
* Participated in daily **Scrum meetings**, discussed with Business Analysts and Developers about requirement gaps, defects and blocking issues.
* Setup the **Automation framework** using **Selenium WebDriver** to run test cases in multiple browsers and platforms.
* Used **Selenium** **tool** (Selenium IDE is a plug-in to Firefox) to record and playback tests and then export the recorded test in other language e.g., HTML, Java. The Exported test can be run in any browser and any platform using "Selenium Remote control".
* Implemented **Selenium** **WebDriver** for compatibility testing.
* Worked on **acceptance testing** using Selenium WebDriver.
* Used **cucumber framework** with the user stories and created a featured file.
* Proficient with testing **REST APIs**, **Web** & **Database** testing.
* Designed and developed automated test scripts using SoapUI orchestrating various **SOAP** and **RESTful** web services.
* Created Java based scripts for Selenium Web Driver with JUnit as automation framework.
* Developed and maintain automation test scripts for client-server and web-based applications using **Java**, Silk and other automation tools.
* Usage of Cucumber **TestNG** Annotations in Step Definition files.
* Experienced on **REST API** testing using SOAPUI.
* Used **Selenium WebDriver** for writing test scripts for regression test coverage.
* Extended **TestNG** framework by adding some helper classes and methods.
* Responsible for implementation of **Data Driven Test Automation** **Framework** build using Selenium WebDriver, TestNG and Maven technologies under Java platform utilizing industry leading harness design patterns and approaches.
* Performed **System**, **Integration**, **Smoke**, **Sanity**, **Functional**, **End** **to** **End**, **Positive**, **Negative**, **Regression testing** and monitored the behavior of the applications during different phases of testing.
* Created **Test Runner** files with the help of Cucumber Annotation & Feature file
* Involved in creating automation test suites for progression & regression testing in **SOAPUI**. The messaging formats included SOAP over **HTTP**&**REST** based clients with **XML Payload**.
* Created custom **JSON**/**XML** Assertors for validation of SOAP (WSDL), and REST API calls.
* Analyzed the **Log files** to verify the processes for debugging and or test data verification purposes.
* Contributed to the **Continuous Integration** pipeline running component builds, creating and running Deployment jobs on individual stages on Jenkins, and running automated and manual functional tests.
* Used **Firebug**/**Fire** **Path** Add-on tools to identify the Object’s id, Name, Xpath, link in the application.
* Used SoapUI tool to test SOA based architecture application to test SOAP services and REST API.
* Tested compatibility of application for **dynamic** and **static** content under various cross browsers using **HTML IDs** and **XPath** in Selenium.
* Involved in setting up continuous integration system using **Jenkins** and working knowledge with cloud-based code repository system like **GitHub**.
* Connected to database to Query the database using **SQL** for **data verification** and **validation.**
* Conducted backend testing using **SQL** **queries** to validate data for database.
* Prepared user documentation with **screenshots** for UAT (User Acceptance testing).
* Created **manual test** cases, reviewed with different stakeholders to validate the functionality.
* Edited and debug tests using Selenium Participated in meeting, teleconferences walk through with the development team, QA manager and Project manager (PM).

**Environment**: *Java (Programing language), Selenium WebDriver, Cucumber, Selenium Grid (Automation Tool), TestNG (Reporting tool), Maven. (Build Tool), Jenkins (CI/CD), MVC, SOAP UI, Firebug, FirePath, Postman, XML, DOM, HTML, GIT (Version Control), Internet Explorer, Chrome, Firefox (Web Browsers), JIRA (Bug Tracking Tool), SQL (Database)and Windows (Operating System).*