DHIVYASREE S  
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**PROFESSIONAL SUMMARY**

I hold a working experience of over **5.2 years in Software Testing(Manual & Automation)** across the domains SAN, Telecom with exposure to types of Testing.

* Working as a Senior QA Engineer in SAN domain with several features containing **L2 /L3 Layers of protocols** such as **Firmware testing, SNMP and Web Application testing, IP Address management , Security features such as Authentication, Authentication and Authorization, FICON , SNMP, DHCP,RADIUS, Zoning, Trunking, FOS Management, AG(switch in other mode), User management , Access Control policies, Licensing, General configurations (includes fabric traffic parameters),Trace Dump, Support save collection** , all dealt with both front end and backend verification, Testing thin client and good knowledge in **http and https communication protocol.**
* Experience in generating the **automation test scripts using JAVA with TestNG ,Serenity with BDD framework &python with pyuniti framework.**
* Generated the automation test scripts using **SELENIUM** automation tool. Has experience **TestNG & Serenity Framework**.
* Performed **System Testing, Functional Testing, Web Testing(such as Browser & Platform Compatibility testing, Regression Testing, Integration Testing,Adhoc Testing ,Testing in telecom domain**
* Experience in different testing methodologies such as – **Agile (SCRUM), Waterfall**, **SAFE Agile** Framework
* Experience in testing **Web services (API)** with **REST** config using **POSTMAN**.
* Written **Test Strategy** and **Test Design**, Test Execution using **Qtest** Tool.
* Handled tools such as bug tracking systems ( **JIRA,TeamTrack,One jira**), test case management software (**JIRA**), code review tool ( **GitHub**)
* Involved in Team Building activities such as KT for new comers and helped for other team regarding the domain part.
* Possess strong knowledge in all phases of SDLC, STLC, Testing methodologies and techniques.
* Expertise in testing the end to end functionality of the **Storage Area Network for device ,monitoring, Telecom domain with wireless or wired product (KIRKE)** with major focus on verifying the end to end functionality testing.
* Good knowledge in Networking and Telecom domain with different framework stufs
* Experience in documenting and maintaining reports and helping with software release process, also involved in FS Writing for Design review for the software product.
  + Testing NMS Application(Java based client) for 2.7 years with various features dealt with fabric related components monitoring at remote places
  + Also did white paper for Database Replication and Streaming in NMS Application for Investigating the support of application in Disaster Recovery or High Availability executed all 4 phases in Linux platforms using emulator tool to client with in short duration.
  + Executed considerable number of testcases in which both manual and automation(selenium with JAVA) are included done with good accuracy in test execution updated the test execution on time.
  + Involved in many successful releases of NMS Application with on time execution status.
  + Also involved in non functional testing for verifying the compatibility of application in different test Environment.
  + Involved Customer defect validation and clearly given RCAs for those issues.
  + Involved in Testbed preparation and resource allocation for Test Environment along with Test plan activities.
  + Testing switch explorer and simulating application for 2.8 years “WebTools” (java client) and started web Application testing “webEM”(react and angular js support client) mainly dealt with switches.
  + Involved in more successful release of FOS SAN product device testing with considerable number of testcases including some manual and some automation testing for regression cases (selenium with python).
  + Tracked the UX team for design change updates for the new product application and written FS document.
  + Eager to learn new things in networking domain, proxy verification with several browsers in both the above projects ,Prepared Test cases and Test design flexible in working with JIRA,Forming Test bed requirements for test environment,Test case and Test Design documents, prepare test data, identify and log defects in defect management tool like JIRA, importing test cases, Perform functional testing, smoke testing, regression testing and report results, Executed some Automation test scripts in java and python with selenium.
  + Knowledge in basic SQL Queries , Vulnerability Assessment for Application with Security Testing.
  + Eager to learn new domain along with updating latest framework techniques in both Java and python with selenium.

**TECHNICAL SKILLS**

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| --- | --- |
| Protocol | FC, SNMP, FCIP, FCoE(basics), SCSI, FCR, NPIV, NVMe (basics), OSPF, STP, DHCP, NTP, TCP, UDP,HTTP,HTTPS |
| Operating System | Linux, Windows  Servers: IBM x3650, IBM x3650 M2, M3, M4 and Lenovo M5 servers |
| Scripting Language | Java & Python |
| Automation Tools / Framework | Selenium & Serenity with BDD ,TestNG - JAVA, Pycharm, Eclipse, Pyuniti, Selenium |
| Hardware | Brocade switches/Directors, Brocade /QLogic/Emulex HBA's(Network Adapters), 4G/8G/16G/32G SFPs and 128G/64G QSFPs, EMC VNX , SANBlaze Enterprise Edition |
| Tools | NMS Testing : BNA ,SANNAV & Webem Tester (SAN FABRIC NETWORKS), JIRA, Team Track, JDSU Medusa Test tools(Traffic Generator);TELECOM DOMAIN: QTest,Onejira, GITLAB, PGADMIN(for Backend),POSTMAN(For API),JENKINS |
| Application | SANNAV, BNA and WebEM – and web based application (Brocade Applications to monitor and configure the Storage Network);KIRKE – web based Telecom software product to maintain schedule request for wireless and wireless vendors/products. |

**ACHIEVEMENT**

Submited White paper for scalability and performance related investigation testing for **Database Replication and streaming**

(for Investigating the support of application in Disaster Recovery or High Availability management successfully executed all 4 phases in Linux platforms which includes data availability from one server to other server with live streaming through packet storm emulator tool. Basic for creating VMs from the Hyperware server).

Also involved in many successful releases under Broadcom client with Agile process ,Completed successful iterations with burning down many tickets with SAFe Agile.

**CERTIFICATIONS**

ISTQB\_Certification

SAFe Agile Framework Certification

Selenium webdriver with Java

Serenity BDD Rest API Automation

Serenity BDD UI Automation

UC-JUNITCERTIFICATION

**ACADEMIC QUALIFICATION**

Graduation: B.TECH (IT) from Velalar College of Engg and Tech under Anna University, Chennai.

Passed Out : 2013

**EXPERIENCE SUMMARY**

* Worked for HCL Technologies, Chennai as a Software QA Engineer. (Aug 2015 to Jan 2020)
* Worked for Incedo Technologies ,Chennai as a Senior Software QA Engineer (Feb 2020 to Oct 2020)

**PROJECT EXPERIENCE**

**Project 1: Brocade BNA&Broadcom WebEM**

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| Client | **Brocade(BNA),Broadcom(WebEM)** |
| Environment | **Windows ,Linux, FOS SAN, Web application** |

Duration : Aug 2015 – Jan 2020

**Project Description**

* Testing NMS Application(BNA)(Java based client) for 2.7 years with various features dealt with fabric related components monitoring at remote places.
* Testing WebEM (switch based simulator web Application for 1.8 years also dealt with many features in accordance with cli commands with manual support
* Automation worked :
* Selenium with JAVA (TestNG Framework)(1.5years)
* Selenium with Python (Pyuniti Framework) (8 months)

**Project Details – Automation Testing**

1. **Framework: TestNG & Application: WebEM**

**Responsibilities**

* Developed the Automation Test Scripts in Selenium WebDriver using Java.
* Prepared Excel files for collection of data and Element Locators using object repository, used this in test suite with the help of APACHE POI library files and Maven dependencies.
* Performed functional, cross browser testing, compatibility testing on different browsers like IE, Firefox & Chrome.
* Developed Test cases using Element Locators and Selenium WebDriver methods.
* Enhanced Test cases using Java Programming features and TestNG Annotations.
* Used GitHub, source code management tool for code re-usage, high portability extending scope of Automation Testing.
* Reviewing the Test Reports using TestNG framework.

1. **Framework: pyuniti**

**Responsibilities**

* Planning and estimating automation testing activities.
* Developing Test Scripts with respect to features (Firmware, QoS, and Basic Func) using python.
* Using GitHub, source code management tool for code re-usage, high portability extending scope of Automation Testing.
* Work closely with client automation team for update/fix/refactor the framework.
* Perform functional and regression testing.
* Code review and debugging

**Project Details**

Testing different functionalities and features of various Broadcom platforms.

**Responsibilities**

* My key task involves testing Fibre Channel features and functionalities on firmware that runs on Brocade switches.
* Design test beds, identify necessary equipment, create topology maps, and estimate test efforts.
* Create test design document at high level covering all platforms under test.
* Write test plans and test cases based on product/feature requirements.
* Test the feature thoroughly on different platforms and identifying major critical issues at early testing phase.
* Use the tools and simulators to simulate error conditions and live environment scenarios and test the stability of the firmware.
* Using different storage profiles and different traffic patterns to test the SAN efficiency to adapt to different patterns and environments.
* Investigate the source of problems, definition of the environment, before posting an appropriately detailed and highly informative bug.
* System testing is carried out to verify the firmware compatibility on different platforms and also does a Load testing across the network using different real-time traffic patterns.
* Regression Testing is carried on with every new firmware builds in parallel with regular Test cycles.
* Investigate the issue and collect required logs on each module for debugging.
* Recover faulty switches through net-install procedure.
* Assess progress and prepare testing status reports for management.
* Training new team members on FC protocol, Brocade switch architecture (Hardware/Software) and Brocade’s proprietary tools and framework.
* Bring up new devices (Switches, Servers, Storage) in Lab, configuration and verification, fabric formation.
* Reporting defects and validating fixes provided for the defect as well as verifying the fix for customer issues ensuring no regression is seen.
* Executed considerable number of testcases in which both manual and automation(selenium with JAVA) are included done with good accuracy in test execution updated the test execution on time.
* Involved in many successful releases of NMS Application with on time execution status.
* Also involved in non functional testing for verifying the compatibility of application in different test Environment.
* Involved Customer defect validation and clearly given RCAs for those issues.
* Involved in Testbed preparation and resource allocation for Test Environment along with Test plan activities.
* Testing switch explorer and simulating application for 2.8 years “WebTools” (java client) and started web Application testing “webEM”(react and angular js support client) mainly dealt with switches.
* Involved in more successful release of FOS SAN product device testing with considerable number of testcases including some manual and some automation testing for regression cases (selenium with python).
* Tracked the UX team for design change updates for the new product application and written FS document.
* Eager to learn new things in networking domain, proxy verification with several browsers in both the above projects ,Prepared Test cases and Test design flexible in working with JIRA,Forming Test bed requirements for test environment,Test case and Test Design documents, prepare test data, identify and log defects in defect management tool like JIRA, importing test cases, Perform functional testing, smoke testing, regression testing and report results, Executed some Automation test scripts in java and python with selenium.
* Knowledge in basic SQL Queries , Vulnerability Assessment for Application with Security Testing.
* Eager to learn new domain along with updating latest framework techniques in both Java and python with selenium.
* Resource Allocation requests for Test Bed Requirements through ELS Tickets to form the Test bed along with Test Environment.

**Project 2: KIRKE**

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| Client | **Verizon** |
| Environment | **Web application** |

Duration – Feb2020 – Oct 2020

**Project Description**

Kirke is a web based Application used for creating schedule maintenance for 5G wireless and wireline vendors including circuits and devices

**Responsibilities**

* Executed Adhoc Testing and Web Application Testing.
* Created End to End Test Cases and Executed the Test Cases.
* Created Manual Test Scripts and Defect Logs.
* Analysing the user story based on the client Requirement
* Writing testcases for the user story in each iteration
* Upload in qtest portal for testcase mapping in jira with the relevant user story
* QA task (Test execution) performed in the application and marked as executed with status as pass / fail in qtest for manual testcase execution.
* If it having issues moves to in progress else it moves to demo
* Getting PO Acceptance for the delivered user story ticket
* Writing automation code skeleton for delivered user story with in sprint automation
* If at any case its not delivered with in sprint , its moved to backlog automation and its executed in upcoming sprint which will be tracked as a separate task.
* In our framework serenity Jenkins are integratedso that the end of sprint if werun the task progression it will generate pass / fail reports of testcases in common which ever we have automated in the current sprint.
* Once after automating the cases will marked in the qtest portal as automatable.
* Filed considerable number of bugs in the productive manner.
* Helping with the teammates to convey the feature oriented stuffs to both dev and QA team.
* Regression testing has been performed at the end of each iteration and observed the issues by doing the overall sanity testing for the delivered user stories.
* Testing can be done parallely for UI and API microservices in such a way , it covers for both GUI and backend part of the application with DB verification using Postgres DB.
* For API testing POSTMAN tool has been used to hit the microservices for different UI part of the application with inbuilt methods such as GET,POST,PUT,etc., with the params , various authorizations and json payload as body to retrieve the response code for the URL.
* Testcases are executed with the QTEST software tool by copying the testcases into testdatasets.

1. **Framework: Serenity BDD UI & API Automation Framework & Application: KIRKE**

**Responsibilities**

* Developed the Automation Test Scripts in Selenium WebDriver using Java with BDD framework inbuilt functions
* Provided the task files and automation code skeletons with the Maven dependencies.
* Performed functional, cross browser testing, compatibility testing on different browsers like Chrome browser.
* Developed Test cases using Element Locators and Selenium WebDriver methods along with some common utilities files for some webbased components.
* For API Automation prepared the test data inputs with json files along with rest validators as task file executions.
* Included testcase tags along with the sprint details along with the user story information before merging the code in gitlab
* Used Gitlab, source code management tool for code re-usage, high portability extending scope of Automation Testing.
* Reviewing the Test Reports using Testspace with Jenkins support (which is integrated with Serenity BDD Framework).
* Eager to learn new things in networking domain, proxy verification with several browsers in both the above projects ,Prepared Test cases and Test design flexible in working with JIRA,Forming Test bed requirements for test environment,Test case and Test Design documents, prepare test data, identify and log defects in defect management tool like JIRA, importing test cases,Perform functional testing, smoke testing, regression testing and report results,Executed some Automation test scripts in java and python with selenium.
* Automated with considerable number of testcases with equivalent manual QA Execution.

**PERSONAL DETAILS**

Father Name : Mr. S.Selvaraj

Gender : Female

Nationality : Indian

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**Declaration**

I hereby declare that the above given details are true to the best of my knowledge.

[DHIVYASREE S]

Place: Erode

Date: