QA AUTOMATION ENGINEER (SDET)

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CAREER OBJECTIVE: -

QA Automation Engineer with over **7** plus years of experience in the complete Software Testing life cycle, including Test Automation and Analysis. I am seeking to be associated with a progressive organization that offers growth-oriented positions and opportunities to contribute to the success of the organization, thereby enhancing my professional skills and working capacities.

PROFESSIONAL SUMMARY: -

- Having total **7.2** years of IT industry experience
- Has **5.1** years of experience in **python** and **PyTest** framework
  - Has **1.6** years of experience as API test automation developer and tester
    (**Python with REST API in PyTest framework**)
  - Has **3. 7** years of experience as frontend UI automation tester
    (**Python with Selenium and PyTest in a Data Driven Hybrid framework)**
- Has **2.1 years** of experience as **Database Developer** (MS SQL SERVER 2012)

PROFESSIONAL SYNOPSIS: -

- Hands on experience in automating test cases for API testing using python with **REST API** in **Pytest** framework.
- Proficient in **Unit** testing
- Proficient in **Unit test** and Pytest frameworks
- Proficient in implementing **RESTful web services.**
- Hands on experience on **POSTMAN** application
- Hands on experience on **Jenkins** automation server for performing **Smoke, Sanity, Regression**, **Integration, Acceptance and** cross browser testing using **SAUCE** labs.
- Hands on experience on **Jenkins** automation server for creating **open shift clusters** and **instances** on **IBM cloud.**
- Hands on experience in validating **IBM db2** tables through automation

- Hands on experience in creating **instances on IBM cloud** and open **shift clusters** through automation.
- Hands on experience on **visual studio code**
- Hands on experience in **automating test cases for UI testing using python with selenium** in **Hybrid** framework.
- Proficient in **selenium and selenium web driver**
- Hands on experience in **HTML5, CSS** and **XPATH**.
- Hands on experience on **PyCharm** and **PDB**.
- Experience in performing mobile testing for **Android** and **IOS** using **APPIUM** and **XCODE**
- Hands on experience on version control tool **GIT and GITHUB**
- Experience in bug tracking tool **Jira**
- Experience in **Agile** Methodology.
- Knowledge in Software Development Life Cycle (**SDLC**)
- Knowledge in Software Testing Life Cycle (**STLC**)
- Experience in preparation of **Test scenarios, Test cases, Test case reviews, Test execution and Defect reporting.**
- Good understanding of SQL Server Architecture
- Experience in design, create, and implement database systems based on the end user's requirements.
- Proficient in improving application's performances.
- Proficient in preparing documentations for database applications.
- Proficient in developing database schemas, tables and dictionaries.
- Ensuring the data quality and integrity in databases.
- Experience in creating complex functions, scripts, stored procedures and triggers to support application development.

WORK EXPERIENCE: -
- Worked as a Database Developer(L1) for Client- IBM, Pune from October 2015 to October 2017
- Worked as Senior Software Engineer for Client -Sony India Software Centre, Bangalore from November 2017 to May 2021
- Worked as Engineering Lead at Persistent Systems Private Limited, Bangalore for Client-IBM USA, from June 2021 to November 21st, 2022.

PROJECT EXPERIENCE: -

Project1: Data Virtualization security on IBM cloud Pak for data

Project Title	:	Data Virtualization security on IBM cloud Pak for data
Role	:	QA(SDET)
Project Description	:	API testing for data Virtualization security on IBM cloud Pak for data using Restful webservices.
Team Size	:	8
Technology used	:	Python, Pytest, REST API, postman, git, Jenkins, Kubernetes, IBM db2, IBM Cloud, IBM Watson,
GitHub issues.		
Duration	:	June 2021 to November 2022

Roles & Responsibilities: -
- Identify and select automation test cases.
- Create an automation test plan and obtain approval.
- Automate manual scenarios (e.g., MASK, DENY, GROUP, ADP, COS, SPECIAL) of DV security on IBM Cloud Pak for data in Pytest framework using Python and RESTful web services.
- Implement test cases according to the project structure.
- Create, enhance, debug, and run test cases.
- Automate the process of creating Open Shift clusters using Python script and Jenkins job.
- Automate the process of installing Data Virtualization service, Watson Knowledge Catalog, and seesaw db2 connection on the new Open Shift cluster with Python script.
- Automate the process of adding users to the new Open Shift cluster.
- Automate the process of creating instances on IBM Cloud using Python script and Jenkins.
- Manage changes and execute regression tests.
- Monitor defect management process.
- Provide solutions for object identity and error handling problems.
- Create new scripts to test all new features introduced in IBM Cloud Pak for data for every release.
- Update existing Python test scripts according to application changes.
- Create different types of clusters (e.g., LDAP, UPGRADE, NORMAL) manually and through automation, depending on release type.
- Perform manual execution of new and existing scenarios.

- Perform regression testing on premises, on cloud, and on Jenkins environment.
- Conduct Root Cause Analysis for failures of Jenkins jobs containing MASK, DENY, GROUP, ADP, COS, SPECIAL scenarios.
- Cross-check failures by executing manually and through automation.
- Raise and report a defect using GITHUB issues.
- Add users to the new Open Shift cluster manually.
- Add new Catalog (Watson Knowledge Catalog) and Data Virtualisation service to the Open Shift cluster manually.
- Perform manual creation of instances on IBM Cloud for different test environments.
- Create Jenkins pipeline for regression testing.
- Create Jenkins pipeline for instance and Open Shift cluster creation and create instances and Open Shift clusters using Jenkins job.
- Participate in code reviews and provide feedback on testability, scalability, and performance.
- Develop and maintain test data and environment management strategies to ensure test environment stability and repeatability.
- Participate in Agile ceremonies, such as sprint planning, retrospectives, and daily stand-ups.
- Collaborate with development teams to identify and fix defects in a timely manner.
- Document and report test results, defects, and recommendations to the project team.
- Manage and maintain test artifacts in a version control system.
- Mentor and train junior team members to improve their testing skills and capabilities.

Project 2 : Pod racer Game Application,   November 2017 - May 2021

Project Title   :   Pod racer
Role   :   QA Automation Tester
Project Description: pod racer web Application UI automation testing using python and selenium on different browsers and mobile devices Android and IOS
Team Size   :   10
Technology used   :   Python, Pytest, Selenium, Sauce labs, Jenkins, Jira, Git, Appium, Android SDK, Xcode, emulators, and physical devices.
Duration   :   November 2017 to May 2021

Roles & Responsibilities: -

- Involved in UI automation testing data driven hybrid framework development with python, Pytest and selenium
- Performing functional testing like Smoke, Sanity, Integration, Regression, Acceptance and cross browser testing using SAUCE Labs
- Testing of compatibility of application for dynamic and static content in cross browsers such as Chrome, IE, Edge, Firefox and Safari.
- Involved in the discussions of Defect Tracking Process and Updated Work Progress in Excel Sheets.
- Performed compatibility testing of applications for dynamic and static content of browsers using HTML ids, class, XPath and CSS Selectors.
- Extensively used Page Objects Design (POD) and page navigation framework for readable test scripts and easy maintenance from developer perspectives and responsible for creating automation framework using POM- Page Object Model, and Data Driven to test web application.
- Thorough understanding of POM using Page Factory.
- Performed regression testing for every modification made in the application and new builds.
- Integrated automation tests in continuous integration tools Jenkins for nightly consignment run of the script.
- Interact with developers, UI/UX and Product Managers to identify gaps between requirement and deployed feature and to identify issues by design and fixing the bugs after every release.
- Developed and maintained reports of all automation issues and test results.
- Updating the Test Automation suite regularly to ensure its accuracy and usefulness.
- Worked closely with developers and Business teams in resolution of technical issues.
- Identified and created issues and bugs based on the User Stories in JIRA.
- Created XML based test suit and integrated with Jenkins Server to execute automation scripts on a regular basis by scheduling Jenkins jobs in different test environments with different test configurations.
- Track automation results on a daily basis for better performance in testing.
- Followed Agile testing methodology, participated in daily Scrum meetings and tested each Sprint deliverables.

- Collaborate with offshore and Manual QA teams to setup test data based on functional specifications for validation of feature and regression scripts.
- Debugging and maintenance of automaton test scripts in batch mode and also implemented a plan on automation scripts on based on Sprint.
- Closed issues and user stories for each release by manual and automation verification

Android and iOS Testing Roles and Responsibilities:

- Analysing project requirements, prioritizing test scenarios, and defining the testing strategy.
- Configuring the testing environment with Appium, Android SDK, Xcode, emulators, or physical devices.
- Writing and modifying test scripts using Python with the Appium framework.
- Generating test data and configuring test scenarios for comprehensive test coverage.
- Running test scripts on Android devices/emulators or iOS simulators/devices using Xcode.
- Logging and tracking defects in a bug tracking system with detailed steps to reproduce and supporting materials.
- Analysing test results, investigating failures, and identifying root causes for effective bug fixing.
- Creating comprehensive test reports summarizing test execution results and known issues.
- Updating test scripts and data, performing regression tests to ensure existing functionality.
- Collaborating with stakeholders, providing updates, and actively participating in discussions

Project3: Integrated Healthcare Management System

Project Title   **:**   Integrated Healthcare Management System
Role   **:**   SQL Developer (L1)
Project Description **:**   Database development for Integrated healthcare management system
Team Size   **:**   5
Duration   **:**   October 2015 to October 2017

Roles & Responsibilities: -
- Designing databases and ensuring their stability, reliability, and performance.
- Design, create, and implement database systems based on the end user's requirements.
- Improve application's performances.
- Prepare documentations for database applications.
- Memory management for database systems.
- Develop database schemas, tables and dictionaries.
- Ensure the data quality and integrity in databases.
- Fix any issues related to database performance and provide corrective measures.
- Create complex functions, scripts, stored procedures and triggers to support application development.
- Take regular database backup.
- Test databases and perform bug fixes.
- Provide authentication and authorizations for Database.
- Develop best practices for database design and development activities.

SKILL SET: -

Languages	**Python 2.x, 3.x**
Web Frameworks	**Selenium 2, 3, 4**
Automation Frameworks	**Pytest, Unit test, Data Driven Hybrid, Appium, XCODE**
Web Technologies	**HTML, XML, JSON, CSS, XPATH**
Databases	**Microsoft SQL Server 2012, IBM db2**
IDE/DEV tools	**PyCharm, IDLE, Visual Studio Code**
Bug tracking tools	**Jira, GitHub Issues**
CI/CD	**Jenkins**
Version Control	**GIT, GITHUB**
Operating Systems	**Windows, Linux**

EDUCATION:

- Completed   B tech in Computer Science Engineering from Andhra University, Visakhapatnam, Andhra Pradesh - 2008

Personal Information:-

Name	:	Chandrasekhar P
Date Of Birth	:	06/04/1986
Address	:	Sri Sai Ganesh PG, Mahadevapura 1st cross, Bangalore - 560048
Nationality	:	Indian
Gender	:	Male

I do hereby certify that the above furnished information is true to the best of my knowledge.

CHANDRASEKHAR P