**Sai Ram**

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**SDET Engineer**

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Around 6+ years of Experience as a SDET Engineer for Client/Server and Web-based Applications.

**Professional Summary:**

* Proficient in authoring and executing project deliverables such as Test Plan, Test Cases/Test Scripts and Test metrics from business/user requirements, user stories, use cases, functional and nonfunctional specifications.
* Experienced in STLC, SDLC (Agile) Methodologies.
* Expertise in developing applications using Java/J2EE(SDET), Spring, Iaas/Paas, Hibernate, Struts, Webservices, Servlets, JSP, Azure, fiddler, JDBC, XML, AJAX, JQuery, node JS and Java Script
* Analyzed the Node.JS server structure in legacy project, then mimicked the REST service by using Java JAX-WS API and did the corresponding configurations.
* Worked on GPI software testing and distributed test automation execution on different environment as part of Continuous Integration Process using **Jenkins.**
* Expertise on assigning the Test Cases to the Test Sets in Application Lifecycle Management (ALM).
* Experienced with assigning the Requirements to the Test Cases in HP Application Lifecycle Management (ALM).
* Implemented **Cloud Based Selenium Grid** on Sauce labs and local Selenium Grid for various applications with various combinations of OS and Browsers
* Expertise in configuration Management tools like Chef and Puppet, Continuous Integration (CI) and Continuous
* Deployment (CD) practices. with Jenkins. Involve in implementing configuration management tools such as Puppet.
* Develop PowerShell cmdlets to control and configure Visual Studio Team System components including build, reporting, testing, version control, and work item tracking.
* Implemented automated solution for Ingram Micro Automation testing team for HP Quick Test professional scripting and execution testing using custom powershell 2.0 and TFS custom build script.
* Expert in developing Automation Framework Using **Selenium Web Driver and J2EE.**
* Excellent experience on Unit Testing Frameworks like **JUnit** and **TestNG**.
* Experienced in using **POSTMAN** and **REST-assured** for **RESTful Web services/REST API testing.**
* Implemented mobile automation frameworks using Appium.
* Expertise in object-oriented programming concepts in polymorphism, inheritance, Encapsulation, Abstraction concepts.
* Expertise in Automation frameworks such as data driven, key word driven.
* Expertise using framework libraries such as BDD/Cucumber and TestNG.
* To validate API and DB data elements, SQL queries should be good.
* Experience and having good architectural knowledge of various web services, REST API, SOAP and Micro Services.
* Created and Verified Web services API requests, SOAP Protocols.
* Created and executed database queries (SQL) to validate database data integrity.
* Worked on Web Services using SoapUI tool to validate XML request and response using Restful call method.
* Performed smoke, functional/system, Sanity testing, retesting, regression, security testing.

**Technical Skills:**

**Testing Tools:** Selenium 2 Web Driver/RC/IDE/Grid, Puppeteer, Test Complete, Quick Test Pro (QTP/UFT, RFT), Soap UI, IOT Testing Rally, JMeter, Appium

**Defect Tracking Tools:** Quality Center (9, 10, 11.0), Jira

**BDD Frameworks:** Cucumber, Keyword and Data driven framework, XUnit

**Programming Languages:** Core **Java**

**Web Services** SOAP, RESTful (JAX-RS, JAX-WS), Jersey API, Rest-Assured

**Job Scheduling:** App worx, Autosys, BMC Control M 6.2/7.0, CA Workload Automation

**Web Technologies:** HTML, JS, CSS, Java Script, XML, JSON

**Script Languages:** Java Script, SQL scripting

**Platforms:** Windows 2003 Server, UNIX, Windows XP/Vista/7/8, MAC OS X

**Databases:**  MS SQL Server 2005, 2008, 2014, No SQL

**UML Tools:** MS Visio, MS Project, UML

**IDE & Reporting Tools:** Eclipse 3.3,3.4,3.5, Visual Studio Code, Intelli J

**Methodologies:**  Agile Scrum, Waterfall, SDLC

**Build Tools:** Ant & Maven

**CI/CDTools:** Jenkins

**Unit Test Frameworks:** Junit &TestNG/ CRAFT

**Testing Methodology:** Functionality Testing, Integration Testing, Regression testing, Unit Testing, Smoke testing, User Acceptance (UAT) Testing, Manual Testing and Automated Testing, Data Driven Testing, Back-end testing.

**Work Experience:**

**Client: Pet Smart Inc August 2020 – Present**

**Location: Phoenix, AZ**

**Role: SDET Engineer**

**Responsibilities:**

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• Used node JS to run scripts.

• Expertise to use npm packages in the Automation framework.

• Used Collections to enhance the Quality of the code.

• Tested web-based applications using Unit testing (XUnit/NUnit).

• Experience testing tools Jasmine and Karma.

• Experience in understanding React Js application.
• Hands on practice in making RESTFULL calls (Request Entity) and response check validations (Response Entity).
• Configured **Selenium Web DriverIO,** and **created selenium automation scripts** in java script using TestNG

 prior to agile release

• Performed Data driven testing using **Selenium WebDriverIO, Junit functions**and **JDBC Connections**which reads data from

 scripts using property and **XML**files.
• Designed and documented **REST/HTTP, SOAP APIs**, including JSON data formats and API versioning strategy.
• Used Postman & SOAPUI for rest service testing.

• Developed cucumber tests for API Automation by using REST Assured framework.

• Automated end to end test cases using WebDriverIO and Mocha Framework

• Automated the Regression Test Cases and Experience with testing REST APIs, Web & Database testing

• Used Ready API for rest service testing.

• Experience in Rest Assured.

• Perform Manual testing as well as functional testing, Integration testing, Regression testing and End to End testing of

 SOAP/REST web services using **Ready API tool.**

• Defect reporting, Executing Framework and Analyzing Result.

• Experience working over on Azure ADO.

• Expertise in SQL and DBMS database expertise.

• Implemented **CI/CD on TFS** with Azure VM’s spinning using Powershell scripting.

• Automate the process of **PowerShell**scripts by maintaining the windows task scheduler.

• Provided support in the performance testing using **JMeter**task includes developing test plan, test script and reports.

• Extensively worked on **JMeter** to create Thread Groups and test Web Application for various loads on key business

 scenarios

• Created and executed **JMeter** scripts for performance testing of portal

• Performance test development for 'Continuous Benchmarking' using **JMeter and Jenkins**

• Involved in integrating the test suites to **Jenkins** to execute them automatically after every successful deployment.

**Environment**: Java Script, Selenium driver IO, Node JS, Jenkins, **Allure Reporting**, Jmeter, **Postman**, ReadyAPI, JMeter, HTML, REST Assured, MySQL, Excel, RFT/ UFT, Access, MS Outlook, Windows, ALM.

**Client: Discount Tire Sep 2018 – August 2020**

**Location: Scottsdale, AZ**

**Role: SDET Engineer**

**Description:** I am working on web application as **SDET** Engineer.

**Responsibilities:**

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• Used node JS to run scripts.

• Used Collections to enhance the Quality of the code.
• Hands on practice in making RESTFULL calls (Request Entity) and response check validations (Response Entity).
• Configured **Selenium Web DriverIO,** and **created selenium automation scripts** in java script using TestNG

 prior to agile release

• Performed Data driven testing using **Selenium WebDriverIO, Junit functions**and **JDBC Connections**which reads data from

 scripts using property and **XML**files.

• Used Selenium Webdriver with TESTNG and sauce labs for frontend automated Testing and cross browser testing. In

 terms of backend Used Ready API (licensed version of SOAP UI)

• Designed and documented **REST/HTTP, SOAP APIs**, including JSON data formats and API versioning strategy.
• Used Postman & SOAPUI for rest service testing.

• Defects were tracked, reviewed, analyzed using HP ALM.

• Used Postman & SOAPUI for rest service testing. Used HP ALM/Quality Center for writing manual test cases and

 executed them. Detected, verified, prioritized, navigated and tracked defects using HP ALM in the software until

 they were fixed.

• Developed cucumber tests for API Automation by using REST Assured framework.

• Automated end to end test cases using WebDriverIO and Mocha Framework

• Automated the Regression Test Cases and Experience with testing REST APIs, Web & Database testing

• Used Ready API for rest service testing.

• Perform Manual testing as well as functional testing, Integration testing, Regression testing and End to End testing of

 SOAP/REST web services using **Ready API tool.**

• Defect reporting, Executing Framework and Analyzing Result.

• Design, Develop and Execute load tests **using JMeter and Jenkins**

• Has very strong exposure on Performance using **Loadrunner and JMeter**

• Used regular expression for **dynamic values in Jmeter**

• Used JMeter to simulate java request load on a backend Application.

• Involved in integrating the test suites to **Jenkins** to execute them automatically after every successful deployment.

**Environment**: Java Script, Selenium driver IO, Node JS, Jenkins, Angular JS, **Allure Reporting**, Jmeter, **Postman**, ReadyAPI, JMeter, HTML, REST Assured, MySQL, Excel, RFT/ UFT, Access, MS Outlook, Windows, ALM.

**Client: CVS Care Mark Dec 2017- August 2018**

**Location: Scottsdale, AZ**

**Role: SDET Engineer**

**Description:** I worked on internal single page PA script Web Application as testing side.

**Responsibilities:**

* Implemented OOPS concepts like Polymorphism, Inheritance to make the code more reusable and clearer.
* Performed parameterization of the automated test scripts in Selenium to check how the application performs against multiple sets of data Contributed in developing Automation Framework that uses Java, Selenium WebDriver and TestNG.
* Created scenarios to test API's for various functionalities and modules of the application using REST Assured Library.
* Responsible for fixing and maintaining regression automation test scripts for end-to-end testing using Selenium WebDriver (using Java).
* Expertise in developing page objects and created using the scripts.
* Managing Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Ansible, Puppet, or custom-built.Designing cloud-hosted solutions, specific AWS product suite experience.
* Worked on creation of Puppet manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Experienced in reporting bugs & UI flows using Defects tracking tools such as HP Quality Center (QC, ALM), and Jira
* Used Puppet to deploy ELK for automating continuous deployment(CD) and configured Slave Nodes and deployment failure reporting.
* AWS Cloud management and Puppet automation.
* Expertise in developing automation scripts in BDD format using **cucumber** and proficient in writing cucumber scenarios
* Developed the **features**, **scenarios**, **step definitions** for **BDD (Behavior Driven Development)** and **TDD (Test Driven Development)** using **Cucumber, Gherkin** and **ruby**.
* Developed test automation framework scripts using Python Selenium WebDriver
* Worked very closely with UI angular developers while automating the tests using protractor and Jasmine.
* Automated AngularJS application module using protractor by writing java scripts and Used Jasmine as unit testing framework.
* Worked with Angular-JS filters in expressions and directives to filter data rendered in the UI and displayed tabular data using Angular-JS by applying filters on the table data.
* Implemented core features of Angular-JS framework such as dependency Injection, Data-binding, Routing, Filters, Directives, Templates, Services and Deep Linking.
* Implemented Page Object Model framework with Python and Selenium.
* Good experience in Shell Scripting's Server, Unix and Linux, Open stack and Expertise Python scripting with focus on Devops tools, CI/CD and AWS Cloud Architecture.
* Automation of test cases using **Selenium Web driver**, **TestNG, Page object Model (POM)**
* Designed and documented **REST/HTTP, SOAP APIs**, including JSON data formats and API versioning strategy
* Used BDD framework with **Cucumber**, ruby and created future files with scenario and scenario utline files
* Implemented Appium scripts to test IOS and Android platforms.
* Hands on practice in making RESTFULL calls (RequestEntity) and response check validations (Response Entity).
* Created automated script for REST-APItesting using framework.
* Perform Manual testing as well as functional testing, Integration testing, Regression testing and End to End testing of SOAP/REST web services using **SOAP UI tool.**

**Environment**: Core Java, Selenium driver IO, Puppet, node JS, JMeter, **Ready API**, Jenkins, JavaScript, Angular JS, MSQL, Jira, ALM

**Client: Care Source Oct 2016 - Nov 2017**

**Location: Dayton, OH**

**Role: Automation Engineer**

**Responsibilities:**

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* Involved in **SCRUM**meetings with the Development and Product Management team and analyzed and developed product stories and included them in **Sprint backlog.** Involved in complete SDLC -Agile methodology. Test scripts were automated using **TestNG framework with Selenium WebDriver**for the application.
* Performed Front end and Back end testing of all the Modules using Manual as well as Automation Testing techniques.
* Creating Automation scripts for Mobile applications using emulators, simulators, and real devise on various mobile platforms like IOS, Android using Appium.
* Used BDD framework with **Cucumber**, ruby and created future files with scenario and scenario utline files.
* Hands on experience in Mocking libraries -Lisa Mocking and Cucumber libraries for rest api testing.
* Implemented OOPS concepts like Polymorphism, Inheritance to make the code more reusable and clar.
* Used Collections to enhance the Quality of the code.
* Created various test sets for different test cycles within Test Lab module of HP ALM/Quality Center.
* Developed automation Framework for **SOAP** and **REST**(POST , **PUT** and **GET** ) **API Testing** using **Restful API** , **UFT API** , **SoapUI** and **Postman** .
* Hands on practice in making RESTFULL calls (Request Entity) and response check validations (Response Entity).
* Expertise in automation of connection to AWS server and dropping the files in S3 bucket through automation.
* Implemented Zipkins for distributed Microservice Monitoring. Integrated Swagger UI and wrote integration test along with REST document.
* Set up remote testing with JMeter using servers in multiple locations. Assisted in JMeter integration with Jenkins
* Perform Manual testing as well as functional testing, Integration testing, Regression testing and End to End testing of SOAP/REST web services using **SOAP UI tool.**
* Used java and HTTP Client to automate Backend Rest Service layer
* Validated **SOAP UI**and **Restful API services**

Environment: Selenium Web driver, **Cucumber**, JavaScript, **Postman**, JMeter, Jenkins, Devops Tool (Bit bucket, Bamboo JIRA), ALM, RFT, SQL, PL/SQL, SoapUI, Web Services, HP-QC, Microsoft Word, Microsoft Excel, Share Point, MS Visio, IOS, Windows, Android

**Client: The College of Saint Rose Dec 2014 - Dec 2015**

**Location: Albany, NY**

**Role: Automation Engineer**

**Responsibilities:**

* Gathered, **analyzed, business requirements, user profile, created workflow processes documentation & charts.**
* Implemented Selenium tool (**Selenium RC, or Selenium GRID**)
* Automation of test cases using **Selenium Web driver**, **TestNG, Page object Model (POM)**
* Designing and writing test automation scripts
* Identifying and selecting the automation test cases
* Experience and having good architectural knowledge of various web services, REST API, SOAP and Micro Services.
* Configured spring applications using different modules like Spring Security, Spring Boot and Micro services.
* Created and Verified Web services API requests, SOAP Protocols.
* key role in script enhancement process to streamline the regression testing process and to achieve continuous automatic test run.
* Updated QA status report and application database for management reporting purpose.
* Created error/ defect reports and communicated with developers, scripter, and application owners for **application defect tracking & resolution**.
* Integrate Automation scripts **Selenium WebDriver API** on continuous integration tools **Jenkins** for nightly batch run of the Script.
* Involved in Testing of the various results generated by the reports against the data present in the database tables and used UAT on that data involving the users
* Conducted Gap Analysis for each of the review documents concerning the respective feeds in back-end interface.
* Designed and documented test cases derived from requirements.
* **Manually verified the applications according to the requirements.** Modified automation scripts as test case changes.
* Analyzed the specifications in the User Requirements Document, Functional Requirement
* Participated in Weekly meetings and walk through to discuss **Defect Priorities**.
* **Environment:** Core Java, Selenium driver, Argus, Pero, SQL, QTP, Jenkins, UAT, QA, HTML, Quality Center, Windows, VBScript, CSS, Maven, IOS, Windows, Android.