**Srikanth V**

**PROFESSIONAL SUMMARY:**

* 8 years of strong expertise in Performance/Load & Stress Testing using HP Load Runner/ Performance Center.
* Extensive experience in automated testing of Web based and Client/Server applications with proficiency in Load and Performance Testing. Good experience in agile methodology.
* Expertise on various monitoring tools like HP Site scope and HP Diagnostics, to keep track of the test performance and identify various bottlenecks.
* Expertise in SQL queries to perform Backend testing,
* Execution of Manual Test Scripts and responsible to track and log the defects using Quality Center, ALM.
* Experience in monitoring Web Servers and Application Servers such as Microsoft IIS, web logic, Web Sphere and Database Servers such as SQL Server and Oracle during the Performance Test with and without firewalls.
* Expertise on Web Services and experienced in using SOAP UI for testing of SOA environment.
* Participated in Integration, System, Smoke and User Acceptance Testing.
* Experience in Performance testing of Web applications and Client/Server by using Load Runner
* Well versed with all functionality of Virtual User Generator and Correlating Statements, configuring Run time settings for HTTP, iterations, Simulated Modem speeds to bring the testing scenario to real world
* Strong knowledge of using Single and Multiple protocols in LoadrunnerVugen like Web Http, Web Sevices, Ajax TruClient, Web Click and Script, Citrix ICA,ODBC and Oracle NCA.
* Good understanding of object oriented methodologies, software development life cycle (SDLC) and software testing methodologies
* Excellent ability to understand complex scenarios and business problems, and transfer the knowledge to other users/developers in the most comprehensible manner
* Good knowledge on Object Oriented Programming, experienced with C programming (C#), HTML, XML, CSS.
* Performed Migration in each and every project after the test results are collected and publicized
* Experience in coding the .Net applications.
* Experienced working with developers in White Box Testing, and debugging codes for better performances results
* Quick learner by respect to latest technology, most excellent put into practice and system

**PROFESSIONAL EXPERIENCES:**

**American Express,Phoenix, AZ Oct16 – TillDate**

**Role: Sr Performance Tester**

American Express a multinational financial services corporation having worldwide presence, on a finance data mart project. An Operational Data Store (ODS) has been identified and created for storing data from global systems, and disseminating data to downstream systems. ODS has been used as a source to develop a standard data warehousing solution to enable the organization to rapidly create/develop subject oriented reports specific to functional needs.

**Responsibilities:**

* Gathering and analyzing business and technical requirements for **Performance** testing purposes.
* Extensively used Web (**HTTP/HTML),** Web Services, **and J2EE**.
* Utilized **WSDLs** and files to perform web services (integration testing) using **SOAP UI** and Performance Center.
* Creating various scenarios to do the **performancetesting** according to scope of the project.
* Managed a team of 6 members in onsite / Offshore model.
* Created Test Plan/Strategy, which includes Testing Resources, Testing Strategy, Risks and testing of end-to-end scenarios.
* Involved in performance testing of server’s load and scalability by creating multiple Virtual Users by using Load Runner Virtual User Generator component.
* Designed multiple **LoadRunner** scripts (Vugen) with different protocols like Web, Flex, AJAX, TruClient, Citrix, Web services for load testing different GUI and other applications.
* Created detailed test status reports, performance capacity reports, web trend analysis reports, and graphical charts for upper management using Load Runner analysis component.
* Created, Executed and Monitored the feasibility of various manual and goal oriented scenarios of an application with Load Runner Controller.
* Run full formal performance test including Load, Peak, Breakpoint, Burst, Longevity and Fail over.
* Effectively used all the components of **Loadrunner** 11.52 including the controller and efficient in writing **Loadrunner** 11.52 functions.
* Identify system/application bottlenecks and work with Bottom-line to facilitate the tuning of the application/environment in order to optimize capacity and improve performance of the application in order to handle peak workloads generated via Mercury Interactive **LoadRunner** tool to simulate activity.
* Configured Web, Application, and Database server performance monitoring setup using **LoadRunner** Controller, **WilyIntroscope**, Spunk &**HPdiagnostics**.
* Added various monitoring parameters (CPU, Memory) to the **LoadRunner** controller for monitoring, also using **SiteScope** for monitoring database and application servers.
* Monitoring the various machines during load tests and informing the corresponding teams in case of issues.
* Extensively used Unix commands for debugging and used, modified & ran Shell Scripts for daily reports and data collection.
* Responsible for analyzing the results like CPU usage, memory usage, garbage collection/heap size, server response times, database response times, active/idle threads, size of weblogic queues, etc.
* Monitor Oracle and **Pl/SQl** database while running the load for CPU utilization, storage IOPS, Storage KBs, IO Wait Percentage, AWR reports, etc. and finding out the issues within database.
* Identified **bottlenecks** for a clustered environment relating to Indexes, Connection Pools, **and Garbage** collections, Memory heap size and fixed them by changing configurations with the help of DB team.
* Coordinate with Off-Shore QA team.

**Environment**: Java, J2EE 1.4, Web Services, and SQL Server, Unix.

**Tools:** Load Runner 11.5, HP Quality Center 11.0, SOAP UI, HP Diagnostics Server and HP Site Scope

**Protocols**: Java over HTTP User, Web Services, Web (HTTP/HTML)

**Anthem (Blue Cross Blue Shield), Wallingford, CT Jan 16 – Sept16**

**Sr Performance Test Engineer.**

***Description:*** Anthem, Inc. is one of the largest health benefits health insurance companies in the United States. It is an independent licensee of the Blue Cross Blue Shield.

**Responsibilities:**

* Reviewed business requirements, prepared test strategy and derived workload models for testing.
* Created scripts in Loadrunner and executed various tests such as load test, endurance test to identify performance bottlenecks for varying concurrent users.
* Analyzed for high response time transactions, response time hotspots, memory usage using tools like Perfmon, Jmeter, Dynatrace and Splunk.
* Documented thorough QA testing reports that scrutinized bottlenecks and release readiness.
* Coordinated with multiple teams to ensure successful performance evaluation.
* Interacted with the client to obtain the Business Requirements Specification
* Attended daily standup, scrum and user story review meetings and discussed the issues related to functionality of test cases and defects.
* Responsible for developing and modifying automated test scripts using JMeter and Load Runner.
* Developed Vuser scripts using single and multiple protocols such as web (HTTP/HTML), Ajax, Truculent, Citrix, Click and Scripts, Web Services and Microsoft .net protocols.
* Prepared Vugen scripts, Load Test, Test Data, Execute test, validate results using ALM Performance Center.
* Created correlation as well as parameterization using Load Runner VuGen.
* Executed Scenarios using Controller and analyzed the results in performance center Analysis.
* Created various testing documentation including Performance test plan, test Metric and summary report.
* Analyzed throughput graphs, hits/second graphs, transactions per second graphs and rendezvous graphs using Load Runner Analysis tool.
* Performed the monitoring performance of the application and database servers, App servers and windows resources during the test run using APM tools like Dynatrace and Site Scope.
* Provided support to the development team in identifying appropriate workflows.

**Environment**: Java, JavaScript, NET, IIS 6.0, Oracle, UNIX.

**Tools**: HP Site Scope, HP ALM Quality Centre, Load Runner (Analysis, Vugen, Controller, HP Performance Center 11.0, 12.0, 12.05, Visual Studio 12. Wily, HP Site Scope

**Protocols**: Web (HTTP/HTML), Web services, AJAX True Client, JavaScript Vuser, Oracle NCA, Microsoft ADO.Net,

**Southwest Airlines, Dallas, TX Nov 13 – Dec 15**

**Sr Performance Test Engineer**

***Description:***Altéa Reservation Desktop (ARD) is a Web application, a next generation graphical user interface. Ticketing agents can use this for selling no matter where they work, whether at airline outlets, telework from home or outsourced call centers. All they need is their Altéa Reservation Desktop Web URL, login and password. Altéa Reservation Desktop Web is used by SouthWest airlines worldwide. This reservation solution helps maximize booking opportunities by distributing air and non-airline like sales on aircraft or food content to wide-reaching, distribution channels. Automated customer preference recognition ensures personalized services can be applied during the reservation process, in line with airline-specific policies. In addition, interlining agreements provide passengers with a seamless service from partner airlines. South West Airline agents can manage reservation functions like PNR Creation/generation, baggage checking, accept payments  or refund  from a browser-based, intuitive interface, which can be deployed from any location. Airlines can also follow customers throughout the journey, providing real-time, personalized alerts to inform of flight changes, services or offers.

**Responsibilities:**

* Prepared Performance Test plan and Test specifications based on Functional Requirement Specifications and System Design Specifications for the application.
* Very good knowledge of Core Java.
* Extensively used Load runner 11.0 for Developing Vuser Scripts
* Created Load Runner scenarios and scheduled the Virtual Users to generate realistic load on the server using Load Runner(Load generator machine)
* Developed Load runner Scripts in Web, Web services, AJAX protocols.
* Created Vusers to emulate concurrent users, inserting Rendezvous points in the Vuser scripts and executed the Vuser Scripts in various scenarios which were both goal oriented and manual using Load Runner.
* Executed scenarios using **HP Performance Center** and analyzed the results through Performance Center Analysis to find the bottlenecks in networks and server resources including deadlock conditions, database connectivity problems and system crashes under load.
* Parameterized actions and created files using random, sequential and unique options in **VUGen**.
* Developed Virtual User Scripts using protocols like **Web (http/html), Web Services.**
* Reviewed and analysed**Web Services contracts, WSDL, XSD** and **XML** files.
* Used Correlation to handle the Dynamic return values and scheduled the test under work load compositions.
* Developed load test scripts using **VUGen** to make them flexible and useful for **Regression testing**.
* Created scenarios using **HP Performance Center11.0** to do Load and Stress test.
* Analysed the results and Created Analysis Report through **Performance Center Analysis**, prepared and submitted Exit Report with Recommendations.
* Analysed the system resource graphs, network monitor graphs and error graphs to identify transaction performance, network problems and scenario results respectively.
* Assisted Application Developers and technical support staff in identifying and resolving defects.
* Involved in writing the code to fix the defects and wrote **SQL Queries** for backend Testing
* Enhanced **Vuser scripts** with transactions, rendezvous points, functions, **parameterization** and **correlation**.
* Configured **Web, Application**, and **Database server** performance monitoring setup using LoadRunner Controller and HP Site scope.
* Identify system/application bottlenecks and work with Bottom-line to facilitate the tuning of the application/environment in order to optimize capacity and improve performance of the application in order to handle peak workloads generated via Mercury Interactive LoadRunner tool to simulate activity.
* Worked with Developers in **Core Java** codes for WhiteBox testing and enhance application performance.
* Used **C# .NET**Vuser Template in **Visual Studio 2012**,
* Created detailed test status reports, performance capacity reports, web trend analysis reports, and graphical charts for upper management using **Load Runner** analysis component.

**Environment**: Java, JavaScript, AJAX, IIS 7/6, Web Services, , SQL Server 2012, C#, HTML.

**Tools**: HP Site Scope, HP ALM Quality Centre, SOAP UI, Load Runner (Analysis, Vugen, Controller 11.0/9.10), HP Performance Center 11.0,Visual Studio 12,

**Protocols**: Web (HTTP/HTML), Web services, AJAX True Client, JavaScript Vuser.

**MARTA. Atlanta, GA Aug 12 - Oct 13**

**Sr. Performance Analyst**

**Description**: Metropolitan Atlanta Rapid Transit Authority (MARTA) is Atlanta’s modern transit system. It is the primary bus and train facility operating in Metro Atlanta. It operates across 5 counties for more than a quarter century. My Commute is a web based application to search, view locations, plan and schedule trips.

**Responsibilities :**

* Identified the test requirements based on application business requirements.
* Prepared Test Cases, Test Strategy, and Test Plan based on the non-functional business requirements to meet **SLA** timings.
* Collaborated with architecture and development teams to analyze the application’s core functionalities and its various dependencies for effectively identifying potential bottlenecks.
* Recorded Scripts using **VuGen** with **web http/html** and **Web Services** protocols.
* Configure the Load Runner controller for running the tests. Verifying that the Load Runner scripts are working as expected on different Load generator machines
* Customized Loadrunner scripts in C language like String manipulation and using C libraries for the Loadrunner Scripts
* Performed correlation by rightly capturing the dynamic values and parameterize the data dependencies that are always a part of Business process.
* Conducted several Load tests such as 1 Hour peak production load, Reliability and Stress tests to identify the performance issues.
* Prepared Workload Model and Configuring Pacing and Think Time to meet load rates.
* Conducted result analysis and communicated technical issues with developers and architects.
* Conducted volume testing by pulling full production volume of data for various regions from the source to the target system under test and analyzed performance of the database for potential bottlenecks
* Actively participated in the daily project meetings and walkthroughs.
* Gathered documentation for tracking, maintaining, creating and escalating daily issue logs.
* Used IP spoofing to generate and associate different IP addresses to Virtual Users to emulate real-time scenarios for load balancing issue
* Worked with Developers, wrote **C#** codes
* Performed Performance Testing, Performing Analysis and Performance Tuning in different Modules.
* Responsible for conducting time to time Knowledge Transfer meetings and imparting domain knowledge with in the team.

**Environment**: VB.net, C#, Microsoft .Net applications, Oracle 10g, Java, WebServices, SQL Server 2008 R2,

**Tools**: Load Runner (Controller, Vugen, Analysis 9.51/9.52), Quality Center, Oracle 10g, SQL Server Management Studio, SOAP

**Protocols**: Web Http/HTML, Web Services, Oracle NCA, Microsoft ADO.Net,

**PepsiCo. New York, NY Feb 11 - Jul 12**

**Performance Tester**

**Description**: A content management system is a software system for organizing and facilitating creation of documents and content. It is used for editing and constructing articles. Performed extensive performance testing of the **CMS** Application.

**Responsibilities:**

* Responsible for Generating the key Virtual user scripts using the **Load Runner VUGen** utility for **web (HTTP/HTML), LDAP** and **WINSOCK** Protocols.
* Responsible for Monitoring the Application’s performance under Load using the key **Web Server Monitors, Web Application server monitors for Web Sphere**, **IIS 5.0,Apache monitors** and **NT Performance Monitors**
* Responsible for Running the **Load Runner** scenarios for the **Vuser** using **Load RunnerController** and monitoring the server response times, throughput, Hits/sec, Trans/sec Transaction Response under load, Web Server Monitors, App server monitors, system monitors such as java processes and a host of other **Performance metrics**.
* Implemented **IP Spoofing techniques** to simulate unique users' requests while running the tests.
* Used **SoapUI Pro** to perform **Web Service test**.
* Made many enhancements to the recorded scripts by correlating, parameterzing, inserting debugging messages and string manipulation and any other script enhancements as and when needed.
* Configured various Web Sphere monitors for **WAS applications** to figure out which of the several **servlets/JSPs** caused the problem.
* Created quantifiable load with test-scenarios for various applications (both standalone and integration) using **Load Runner’s Controller**.
* Used various servers and ran **SQL queries** in **SQL Server 7.0** on the back end to ensure the proper transaction of data during various tests.

*Environment***:**Windows NT, Hp-Unix, Linux, Oracle 8.i & 9.i, SQL, MS SQL Server, Oracle Finance, .Net, Web Services, XML,

Tools: Load Runner 8.0, Test Manager.

*Protocols:* LDAP, WinSock, Web HTTP/HTML.

**The Boeing Company, Kansas, MO. Dec 09 - Jan11**

**Load Runner Engineer**

Delivery of maintenance support data to customer is a key requirement in airplane delivery for any aircraft manufacturer. The current process at client for creating and customizing the support data to customer is manual by collating data from various authoring systems. Also, in the current context support data delivery to airline customers happens through physical delivery of CD-ROMs. Client is palling to launch a new commercial aircraft wherein client wants to automate the support data creation and customization process for different customers and deliver support data online to the customers. Client is implementing a new integrated framework which involves data integration between various authoring systems that generate the data and presentation layer systems from which end user can access the documentation online.

**Responsibilities:**

* Prepared Test plan and Test specifications based on Functional Requirement Specifications and System Design Specifications for ecommerce application.
* Executed scenarios using HP Performance Center and analyzed the results through Performance Center Analysis to find the bottlenecks in networks and server resources including deadlock conditions, database connectivity problems and system crashes under load.
* Parameterized actions and created files using random, sequential and unique options in **VUGen**.
* Developed Virtual User Scripts using protocols like **Web (http/html), Web Services, .Net, Oracle NCA.**
* Reviewed and analysed Web Services contracts, **WSDL, XSD** and **XM**L files.
* Used Correlation to handle the Dynamic return values and scheduled the test under work load compositions.
* Developed load test scripts using **VUGen** to make them flexible and useful for Regression testing.
* Configured monitors to monitor performance of individual Hosts behavior on load.
* Created scenarios using **HP Performance Center** to do Load and Stress test.
* Analyzed the results and Created Analysis Report through **Performance Center Analysis**, prepared and submitted Exit Report with Recommendations.
* Analysed the system resource graphs, network monitor graphs and error graphs to identify transaction performance, network problems and scenario results respectively.
* Enhanced **Vuser scripts** with transactions, functions, parameterization and correlation.
* Measured the response time at different points in the application using Site Scope monitoring tool.
* Configured **Web, Application**, and **Database server** performance monitoring setup using **LoadRunner Controller** and **HP** Site scope.
* Build and execute **SQL queries** to verify the data updates to various tables and ensure data quality and integrity.
* Created detailed test status reports, performance capacity reports, web trend analysis reports, and graphical charts for upper management using Load Runner analysis component.

**Environment:** Agile Methodology, .NET, IIS 6.0, Oracle, UNIX,

**Tools:**LoadRunner (9.10/9.51), HP Site scope, Quality Center, Test Creator

**Protocols:** Oracle Web Application, ODBC, Web Http/HTML.

**Packetware INC. Hyderabad, India. Jun 08 – Nov 09  
Role: QA Engineer /Load Tester.**

Teleprovision software is a tele-product. It mainly deals with tracking down critical, informational and error data. It has several modules like Network gateways, Network elements, Service Actions, Applications, Log/ Trace, Users (Administrator, Managers, Power users and User), and License Management. I was given Log/ Trace module to accomplish the task. In this module, we have to invoke functions present in the CORBA tier and to receive and send the processed data. We have to filter the incoming data into information, error and critical data.

**Responsibilities:**

* Worked in writing and reviewing the test cases.
* Prepared, reviewed and executed the tests plan and test cases based on requirements.
* Analyzed and Developing Test Plan, Test Cases, Test Scripts, Expected Test Results and Test Procedure from functional requirement for each module.
* Utilized testing tools to manage the testing process.
* Verified EDI test files to communicate with external vendors.
* Have good exposure in GUI, Business Testing, Functionality Testing, Manual testing, White Box testing, Black box Testing, System testing, including Integration, Performance, Stress, Load and Regression Testing of Web and Client/Server based applications and UAT using Automated Testing tools like Load runner.
* Reviewed Load Runner coding standards and best practices process for performance testing projects
* Worked in designing test objectives, planning the test, creating Vusers, creating the scenarios, executing the Scenarios, monitoring the scenarios, and analyzing the test results for the Performance testing using Load Runner.
* Used Quality Center to check out the latest versions of the build for testing purposes, and check in the updated test cases, and test documentation periodically.
* Planned, designed, executed and evaluated performance tests of web application and services and ensured optimal application performance using Load Runner.
* Conducted extensive Security Testing including alternative user identification and authentication using manual testing.
* Performed back-end testing by extensively using SQL commands to verify the database integrity.
* Using Load Runner/Performance Center analyzed results and created reports in for the Load test performed.
* Monitored different graphs like transaction response time and analyzed server performance status, hits per second, throughput, windows resources and database server resources etc.
* Evaluated test results to identify performance issues, bottlenecks.
* Identified performance issues with the servers and made recommendations for their performance improvement.
* Maintained bug lists for critical issues using QC.
* Logged and tracked defects identified during testing cycle.

**Environment**: Oracle, .Net Framework 3, MS SQL Server 2005, DB2.

**Tools**: Load Runner 9.0, ETL, Web Sphere, Load Balancer, Quality Center, J2EE Diagnostic Tool, Ethereal, Windows, Wily, HP Site Scope, BAC.

**Protocols:**Web Http/Html, .Net, SOAP, ADO.Net