**Ravalika**

**Sr. Performance Engineer**

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**(732)-540-1495**

**PROFESSIONAL SUMMARY:**

* **7+ years** of experience with Performance Testing, monitoring, functional testing, Quality Management System, Coding and Analysis.
* Extensive experience in using the automated tool **HP LoadRunner, Performance center, WinRunner, Test Director.**
* Experience in functional testing and regression testing using automation tool **QTP.**
* Worked in planning performance test strategy and setting up environment for testing client applications on **Windows** and **Unix** environments, used **Quality Center 10, BSM 9.20, BPM 9.13, Site scope 11.20, RUM 9.2.**
* Proficient in Planning, Developing, Scripting, Executing, and Analyzing **Performance Tests.**
* Worked with **Agile, Scrum**and **Waterfall** Methodologies.
* Experience in designing **PerformanceTest Plan, Test Scenario’s** and **Test Scripts** using Mercury Interactive **HP LoadRunner** tool.
* Experience in using **JMeter** for Performance Testing, Stress Testing, Longevity Testing and Load Testing.
* Good knowledge in entire **Software Development Life Cycle** (SDLC)**, Software Test Life Cycle** (STLC)and **Performance Test Life Cycle** (PTLC).
* Monitored Databases performance like **Oracle and DB2** for Indexes, Sessions, Connections, poorly written **SQL queries and deadlocks** (with the help of Oracle AWR report).
* Extensively used **HP Quality Center** for Test management and execution of manual and **BPT Test Cases**.
* Experience working with **Visual Studio, NetBeans** and **Eclipse**.
* Involved in VuGen scripting for Protocols like **Web** (Http/Html), **TCP/IP networking, Citrix**, **Routers, Switches,** Oracle **NCA** and **Web Services** and Siebel.
* Good with Debugging, Identifying, Adjusting and fixing script errors by running it within **VuGen**.
* ProficientinPerformance testing like **Benchmark**, **Capacity**, Soak and Failover Testing.
* Executing **load** test, **Stress** test and endurance test runs to find the **scalability**, **breakpoint** and **responsetime** of the Application under test.
* Good experience in tracking bugs and generating reports and documenting using different available reporting tools like **MSOffice**, **LRAnalysis** tool, etc.
* Developed and deployed test Load scripts to do **end to end (E2E) performance testing** using Load Runner.
* Worked with **Web,Web Services**, database, client/server and multi-protocol **Vuserscripts.**
* Expertise in understanding business specification from provided requirements and converting them into practical.
* Test Scenarios and analyzing the test results for reporting.
* Experience in **Unicode, PLT** and internationalization testing.
* Self-starter always inclined to learn new technologies and Team Player with very good communication, organizational and interpersonal skills.
* Strong knowledge in **QTP Object repository** creation and **maintenance, regular expression, re-usable actions, data table, checkpoints and recovery scenario**.

**TECHNICAL SKILLS**

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| --- | --- |
| **Testing Tools** | HP LoadRunner, Performance Center 9.5, RTP, Quality Center 10.00, JMeter, QTP, Win Runner, JIRA, IntroScope, SOASTA, Keynote, Visual Studio |
| **Operation System** | Windows 9x / NT/ 2000 / XP/ 2003, UNIX, Linux, Mainframes, DOS |
| **Programming Languages** | C, C#, C++, VB, Java, ASP.NET |
| **RDBMS** | Oracle 9i and SQL Server 2000/2005, DB2, MS Access, PL/SQL |
| **Web Technologies** | HTML, VB Script and Java Script, Front Page, UNIX Shell Script |
| **Monitoring Tools** | BSM 9.20, BPM 9.13, Site scope 11.20, RUM 9.2, UCMDB |
| **Servers** | BEA WebLogic, EJB, MS IIS and Apache WebServer, Citrix |
| **Bug Tracking Tools** | Team Quest, Quality Center/Test Director, Bugzilla. |
| **ETL and ERP** | Power Center, SAP, PeopleSoft, Siebel |

**PROFESSIONAL EXPERIENCE:**

**Client: American Express,Phoenix, AZ**July 2016 -Till date

**Sr. Performance Engineer**

**Responsibilities:**

* Gathered user requirements, designed the **testplans** and test scenarios per the business process.
* Working with application team and developers to select **DynamicUse Cases** and **SLA’s** for application based financial applications.
* Implement the Load Test scripts using the **LoadRunner Virtual User Generator** (VUGen) and enhanced the scripts by including transactions, **parameterize** the constant values.
* Working on single and multiple protocols in LoadRunner **VuGen** like **WebHTTP**, Web Services, **TruClient**, **SAP**, **Citrix** and **OracleNCA**.
* Performed manual **correlation** to develop **robust** scripts and developed shell scripts in UNIX for processing of files to do performance testing interface.
* Working on **UNIX** to modify the database connections, tracking logs, monitoring the resource machines creating users and executing batch jobs.
* Developed detailed test status reports, analyzing the results of the Load test by using **LoadRunner Analysis tool** performance/capacity reports, **WebAnalysisreports, AWR** reports and graphical charts.
* Implemented **IPspoofingtechniques** to simulate unique users' requests while running the tests.
* Organize drives using **Controller,** managed and monitor the load Test, used Load Generator to emulate Virtual Users.
* Working in the performance testing of several applications running on a variety of platforms ranging from legacy systems to **Web** (**Java**, **J2EE**, **Microsoft.NET**).
* Execute Load, Soak, and Fail over tests for a variety of security applications.
* Involved in the **StressAnalysis** based on the Performance Metrics and**VisualStudio** as an IDE for load test.
* Executed **breakpoint** tests to measure server **threshold** and endurance tests to determine the presence of memory leaks.
* Check the availability and monitoring different Applications performance using the **BSM.**
* Establish all **backend** and **downstream** systems are connected, environment availability and all functionalities are working fine.
* Experience in persisting data to different relational databases and in **Java** persistence **API**.
* Developing test cases, creating test scripts, analyzing bugs and working with development team in defect management and **UserAcceptanceTesting(UAT)**.
* Experience with **BSM** and **HPSiteScope** installation, upgrades and integrations.
* Design methodologies **SDLC**, Object Oriented Methodologies, **Agile**, **Scrum**, **MVC**.
* Implemented applications servers like **WebSphere** and **WebLogic** with Java Virtual Machine (**JVM**).
* Efficiently managing the project versions, setting up projects and components in **JIRA.**
* Implementing and executing Test cases, Test Plans and Test Cycles with in **JIRA**.
* Analyzing and monitoring the real-user, performed web monitoring to speed up the applications and load test continuously to improve the **end**-**user** experience using **APM** tool.
* Ensuring the **responsetime** of **API** users and within the Service Level Agreements (**SLAs**).
* Maintain timeslots, view user reservations, and monitor availability of time and **ResourcesManageTimeslots** and monitor availability of time and resources.
* Report and enter bugs in **QualityCenter** to test for the compatibility of the Browser.

**Environment**: HP LoadRunner 12.02, Java, Visual Studio, Oracle, DB2, HP SiteScope, WebSphere, WebLogic, ALM 12, JVM, SOAP UI, JDBC, APM, UAT, HP Analyzer, Citrix, Performance Tester, IntroScope, Microsoft SQL Server 2008, Siebel, Quality Center.

**Client:Elavon Inc. Atlanta, GA** May 2015 –June 2016

**Sr. Performance Engineer**

**Responsibilities**:

* Interacted with business and development teams to understand the user requirements.
* Implemented Load Runner test scripts per test specifications/ requirements.
* Enhanced the scripts by employing Manual/Automatic **Correlation** Techniques, transactions using **VnGen.**
* Performed **Parameterization** techniques and runtime settings for call flows and **LR** specific functions.
* Updated Shared object repository from time to time using **ObjectRepositoryManager.**
* Defined and configured SLAs for hits/sec, **throughput**, transactions per second in **LoadRunner**.
* Designed Load/Stress scenarios for performance testing using **Performance center** and **SOASTA.**
* Extensively worked in installing **LoadRunnerController**, **Analysis** and **Generator** on Windows platform.
* Used **QualityCenter** for requirement **Analysis**, scheduling and generating test cases.
* Installed **Sitescope** and configured monitors for analysis.
* Testing on the servers using Load Runner and **PerformanceCenter** to establish the **Load Capacity** of the server.
* Develop After-Test Summary for Resources (CPU utilization), **Vusers** Hits/sec and memory leak through Graphs using **Performance Center Analysis tool**.
* Followed up with standard **Software Testing Life Cycle** (STLC) to perform different types of testing for the projects Analyzed requirements, Dynamic Use Cases, and Test cases.
* Implementing robust, scalable Web applications and developing all application using **ASP.NET** and **MVC**.
* Performed load test using LoadRunner and created virtual users using **VusersGenerator**.
* Analyze, interpret, and summarize meaningful and relevant results in a complete **PerformanceTest Report.**
* Implemented code compliant with design patterns for **Java**.
* Involved in data integration using **Java Web Services** (JAX-WS, JAX-RS).
* Conducted client engagement activities including requirement gathering, process **Analysis** and design, Performance metrics **Analysis**, performance profile development and test case design.
* Configuring, monitoring **JDBC** connection pool status, **JVMHeap** size, **JMS** messages.
* Working with **JVM** parameter for **Apache** and **Tomcatservers** for better application performance.
* Using **WebService** for creating, updating and gathering the party details through **SOAP UI**.
* Performed **QA** Process management by automated process, identified functional changed with business impact and trained QA team with cross business training.
* Observing Transaction Response Times, Running Virtual Users, Hits per Second and Windows Resources graph using **LoadRunner** **Analysis** and **IntroScope**.
* Improving the performance and decreased the pause times using **JVM** deterministic **GarbageCollector**.

**Environment:** HP LoadRunner 12, HTTP/HTML, Citrix server, Siebel, Oracle, QTP, MS Access, HP Analyzer, Wily IntroScope, SOAP UI, JVM, Microsoft SQL Server 2008, UNIX, WebLogic, Shell Scripting, HP Quality Center.

**Client: Creehan & Company, Canonsburg, PA.** July 2014 – April 2015

**Performance Engineer**

**Responsibilities:**

* Collected performance requirements of each of the system as such from development and user community.
* Developed **Load runner scripts** and **Manual Test scripts.**
* Preparing test cases, bug reports and Test Reports per the task.
* Developing **Vuser** scripts and enhanced the basic script by **Parameterzing** the constant values.
* Designed and implemented performance test **frameworks** for improving test efficiency.
* Identified and reported bugs in **QualityCenter**.
* Arranged the alerts in **HPSiteScope** to send auto emails to alert the CPU and memory utilization, downtime, Query execution time for **DB** and **Linux** machines.
* Proficient in protocols like **Web(HTTP/HTM)**, **TruClient**, **Citrix**, **Oracle** and **Webservices** for performance testing using LoadRunner and **ALMPerformanceCenter**.
* Observing the entire load test run for any failures or errors and monitored metrics such as Transaction Response Times, Running Virtual Users, Hits per Second and Windows Resources graph using **LoadRunner** **Analysis** and **IntroScope**.
* Created reports for online batch jobs by capturing processing time from batch server logs and ensured that the records are processed within **SLA.**
* Used Load Runner for checking the performance of Various Reports and Queries under load.
* Documented test execution results, **test reports,** and gathered and evaluated **test metrics** for **reporting**.
* Developed **Test Scenarios** and performed the test runs using the **Controller.**
* Analyzed the **Load Runner** results to measure the **Average CPU usage, Response time, Transactions per second.**
* Using Load Runner analyzed the **responsetime** of various business transactions, modules login times under load, developed reports and graphs to present the test results.
* Monitoring on **WilyIntroScope** for CPU, memory, **Garbagecollection**, **Thread** usage and network utilizations on the **UNIXserver** using during the Test Execution.
* Tested the whole site for any broken links and against **Webdesign** standards like fonts, colors and localization.
* Tested for the compatibility of the Browser, functionality and performance of the applications.

**Environment:**LoadRunner, Quality Center, Oracle Application, SQL server, Linux, Version Control Systems, Win runner, Test director, Windows Advance Servers.

**Chelsio Communications,Sunnyvale, CA.**April 2013 – June 2014

**Performance Test Engineer**

**Responsibilities:**

* Gathered and analyzed business and technical requirements for **Performance Testing** purposes.
* Developed Test Cases, Test Strategy, and Test Plan based on the **non**-**functional** business requirements to meet **SLA** timings.
* Developed test scripts and Wrote **SQL** queries to validate the data in **Back End Functionality.**
* Installed and configured **LoadRunner** tools for automated functionality and performance testing.
* Executed scenarios using **Controller** and **Analysis** of results using **LoadRunnerAnalyzer**.
* Simulated hundreds of concurrent users using while monitoring both **end-user response time** and detailed infrastructure component performance (Servers, Databases, and Networks).
* Extensively used **Performance Monitors** to analyze the **System Bottlenecks** like **Memory Leaks**.
* Monitored and Analyzed Activity Report and Performance Report created using LoadRunner **Analysis**.
* Conducting **RegressionTesting** whenever some code module is changed.
* Monitoring and analyzing the performance of the server using **SiteScope** by creating various reports of **JVM** heap size.
* Implemented and executed scripts, test plan using **JMeter**and debugged and validated the Test scripts.
* Developed **Network** **Analysis** for several projects and documented for Performance testing assignments.
* Implemented scripts using LoadRunner for **Web Services**, **Oracle** and **Citrix** applications.
* Analyzing **Throughput Graph**, **Hits/Second Graph**, **Transactions per second Graph** and **Rendezvous Graphs** using **LR Analysis Tool**.
* Strong understanding of **TCP/IP** networking and worked in a secured network with **Firewalls.**
* Prepared and executed the test scripts using **JMeter** and **SOAPUI** tool to perform Web Service testing.
* Expert in creating **SQL queries** against **Oracle**, **MSSQLs** server and **DB2**.
* Correlated the dynamically created session data in the load test scripts in **VUGen** to synchronize with the application.
* Arrange sign off calls with all stakeholders for performance test results analysis besides publishing **MoM** and follows up to resolve the open issues and getting sign-off.
* Analyzed the results of the Load test by using **LoadRunner Analysis tool**, looking at the online monitors and the graphs, considered **AWRreports** and identified the bottlenecks in the system.

**Environment:** HP LoadRunner, JMeter, TCP/IP, AWR reports, JVM, Oracle, HP Analyzer, SOAP UI, Microsoft SQL Server 2008.

**Sterling InfoSystems , Cleveland, OH.** Oct 2011 – March 2013

**Performance Test Engineer**

**Location:**

**Responsibilities:**

* Analyzed the results of the Load test by using **LoadRunner Analysis tool**, looking at the online monitors and the graphs, considered **AWRreports** and identified the bottlenecks in the system.
* Coordinated with business team to get the performance requirements for the Load Testing, Stress Testing and Capacity Planning.
* Tested Performance of Web Application and Generated Automation Test scripts using **LoadRunner**.
* Actively participated throughout all phases of the **Software Development Life Cycle (SDLC).**
* Successfully created **Load runner scripts** depends on different business cases, created different **Load runner scenarios** depends on work load.
* Modified scripts by **Parameterization, correlation**, **Transaction points, Rendezvous points.**
* Conducted **Cross Browser testing** to check the compatibility of the Application with different Browsers likes Mozilla Firefox, IE 6, IE 7, and IE 8.
* Monitored the defect tracking process and generated customized reports using **QualityCenter**.
* Developed **VuGen test scripts** in **LoadRunner** for Oracle forms and JSP pages using NCA and HTTP protocols.
* Installed and Setup **Performance Center** and Multi Load Runner Agents **Site Scope** Installation and Setup includes creating Groups and Monitors for **UNIX**, **WebLogic** and **Oracle;** Database.
* Developed and executed Load Test scripts using **LoadRunner** and **PerformanceCenter** to perform **end to end (E2E)** performance testing.
* Working with **JVM** parameter for **Apache** and **Tomcatservers** for better application performance.
* Analyzed load balancer settings to perform **IPSpoofing.**
* Analyzed the **HostConfigurations** to make sure enough number of virtual users can be run from individual machines.
* Configured and Monitored the **Oracle** Database Monitors, **WindowsResources**, Network delays to identify the bottlenecks.
* Analysing test results after testing and providing root cause **Analysis**.
* Participated in code review and **peer** review meetings frequently during Load, stress and performance tests.
* Developed test metrics on the regular monthly basis for higher management.
* Maintaining the scripts and data using **TeamSiteversion** control tool.
* Interacted with developers to resolve the bugs following the **Bug Life Cycle Policy.**

**Environment:** LoadRunner, UNIX, HP SiteScope, JVM, DB2, Oracle, HTML, Java, SQL Queries, SQL server, WebLogic, WebSphere, Quality Center, Performance Center, Mainframes, MS Access, Windows 7/XP.

**RBS, Hyderabad, India.** March 2010 – Sep 2011

**Performance Engineer**

**Responsibilities:**

* Interacted with developers to resolve the bugs following the **Bug Life Cycle Policy.**
* Gathered Performance testing requirements and developed **Performance test plan.**
* Install and configure **LoadRunner** (Vugen, Controller and Agents).
* Creating various scenarios to test the **non-functionality**.
* Recorded Scripts using VuGen with web http/html and **WebServicesprotocols.**
* Performed **Testing Reports** developed for entering the customers.
* Parameterize and correlate the scripts, analyzed the Application logs and Backend calls captured during testing by accessing **UNIX** Systems.
* Generate and associate different IP addresses to Virtual Users to emulate real-time scenarios for load balancing issues by using **IPspoofing**.
* Performed the **GUI** functionality check and manual checking of test cases.
* Used **HPSiteScope** to monitor server metrics.
* Enhanced Load Runner scripts to test the new builds of the applications.
* Performed **Load and Stress** Testing using **Load Runner**.
* Prepared the **Analysis report** for different tests performed using different scenarios.
* Test monitoring and test logs/stats capturing during test run.
* Reporting an issue to concerned teams through issue reporting tools like **QualityCenter**.

**Environment:** LoadRunner, DB2, WebLogic, QTP, UNIX, Performance Center, GUI, HP SiteScope, Quality Center, SQL Server, Oracle, SQL Profiler, Visual basic, WebSphere, XML.

**Education**: Bachelors in Computer Science and Engineering, JNTU, India.