**Ravalika Adepu**

**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 and Waterfall** Methodologies.
* Experience in designing **PerformanceTest Plan, Test Scenario’s** and **Test Scripts** using Mercury Interactive **Load Runner** tool (**HP LoadRunner**).
* Extensively used **ETL** methodology for supporting data extraction, transformations and loading processing in a corporate-wide-ETL Solution using **Informatica**.
* 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 **WebServices** and Siebel.
* Good with Debugging, Identifying, Adjusting and fixing script errors by running it within **VuGen**.
* Proficient in Performance testing like **Benchmark**, **Capacity**, Soak and Failover Testing.
* Executing **load** test, **Stress** test and endurance test runs to find the **scalability**, **breakpoint** and **response time** 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 performance testing** using Load Runner.
* Worked with**Web,WebServices**, 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.
* Knowledge in understanding of **Scrum Methodologies**.
* 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**.
* Possess **excellent communication and Problem Solving skills** and the ability to work as a team member, as well as independently and adapt to new, evolving technologies and implement them in current projects.
* Ability to adapt to changing professional work environment to implement software solutions in an efficient manner.
* Ability to understand project requirements and deliver it with proper estimation and quality.
* Excellent Technical, Communication and Interpersonal Skills with strong Customer Orientation, Client Interfacing Skills.

**TECHNICAL SKILLS**

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| **Testing Tools** | HP LoadRunner, Performance Center 9.5, RTP, Quality Center 10.00, JMeter, QTP, Win Runner,JIRA, HP SiteScope,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 |
| **RDBMS** | Oracle 9i and SQL Server 2000/2005, DB2, MS Access, PL/SQL |
| **Web Technologies** | HTML, VB Script and Java Script, Front Page, Perl Script, 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** | Informatica Power Center, SAP, PeopleSoft, Siebel |

**PROFESSIONAL EXPERIENCE:**

**Client: ElavonInc.Atlanta, GA.** May 2015 – Present

**Sr. Performance Engineer**

**Responsibilities**:

* Gathered user requirements, designed the **testplans** and test scenarios according to the business process.
* Working with application team and developers to select **Use Cases** and **SLA’s** for application based financial applications.
* Provide support to the development team in identifying real world use cases and appropriate workflows.
* Interact with developers, project managers, and management in the development, execution and reporting of test automation results.
* Working on technique in scripting, data preparation and **testreports** and also preparing checklists.
* 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 also 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, performance/capacity reports, **WebAnalysisreports** 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.
* Prepare daily status report, weekly status report, comparison reports, and executive summary report.
* Working in the performance testing of a number of 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.
* Analyzed the results of the Load test by using **LoadRunner Analysis tool**, looking at the online monitors and the graphs, looked into AWR reports and identified the bottlenecks in the system.
* Used **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.**
* Working as an independent consultant for performance testing and coordinated with multiple vendors.
* Tracked the performance defects using **HP ALM/Quality Center.**
* Establish all **backend** and **downstream** systems are connected, environment availability and all functionalities are working fine.
* Involved in defining, setting up and maintaining appropriate monitoring scripts to monitor.
* Working with team and making sure that team following the **Java** coding and reviewing the code.
* Designing web applications using **Java** concepts like **webservices**.
* 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 **User Acceptance Testing (UAT)**.
* Experience with **BSM** and **HP SiteScope** installation, upgrades and integrations.
* Executing and testing automated test scripts using **JMeter** based on functional specification.
* Performed **Web Services** testing for the preparation and execution of test scripts using **SOAP** and **JMeter** tool.
* Implementing the **JMeter** with the load testing infrastructure hardware & software integration along with **LoadRunner**.
* Design methodologies **SDLC**, Object Oriented Methodologies, **Agile**, **Scrum**, **MVC**.
* Involved in setting up the **JMeter** software on various **Cloud** environments like rack space **VM’s** and **OpenStack VM’s** based on the load and requirements.
* Gathered the frequency of **JVMHeap** and **GarbageCollection** in application servers.
* Implemented applications servers like **WebSphere** and **WebLogic** with Java Virtual Machine (**JVM**).
* Performing basic load and stress testing on the web application, designed a test plan with the graphical user interface and run tests against a **WebServer** using **ApacheJMeter**.
* Implementing and executing Test cases, Test Plans and Test Cycles with in **JIRA**.
* Efficiently managing the project versions, setting up projects and components 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.
* Executing different types of Performance Tests with defined user loads captured from present business performance tests include standalone testing, platform regression testing with normal and peak load and **Endurance** testing.
* Ensuring the response times 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, JMeter,WebSphere, WebLogic, ALM 12, JVM, Java, JDBC, APM, QTP**/**UFT, UAT,HP Analyzer,Citrix, Performance Tester, intra scope, Microsoft SQL Server 2008, Siebel, Quality Center.**

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

**Performance Engineer**

**Responsibilities:**

* Interacted with business and development teams to understand the user requirements.
* Implemented Load Runner test scripts according to test specifications/ requirements.
* Worked on different protocols like **Web** (HTTP/HTML), **Citrix**.
* 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 Object Repository Manager
* 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.**
* Proficient in protocols like **Web**, **Citrix**, **Oracle** and **Webservices** for performance testing using LoadRunner and **ALMPerformanceCenter**.
* Extensively worked in installing **LoadRunnerController**, **Analysis** and **Generator** on Windows platform.
* 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**.
* Monitoring and analysing the application performance metrics on database, application and content management servers.
* Followed up with standard **software testing life cycle** (STLC) to perform different types of testing for the projects Analyzed requirements, Use Cases, and Test cases.
* 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).
* Performed in-depth analysis to isolate points of failure in the application.
* Attending daily stand-up calls to update the progress on PT activities and highlight the issues if any in terms of application stability, test data availability, **middleware applications** and environment issues and availability.
* Created reports for online batch jobs by capturing processing time from batch server logs and ensured that the records are processed within **SLA.**
* Configuring, monitoring **JDBC** connection pool status, **JVM** heap size, **JMS** messages.
* Working with **JVM** parameter for **Apache** and **Tomcatservers** for better application performance.
* Performed **QA** Process management by automated process, identified functional changed with business impact and trained QA team with cross business training.
* Developed test plans, test cases, test scripts and procedures, and test result reports for manual and automated testing.
* Improving the performance and decreased the pause times using **JVM** deterministic **GarbageCollector**.
* Monitoring on **WilyIntroscope** for CPU, memory, **Garbagecollection**, Thread usage and network utilizations on the **UNIXserver** using during the Test Execution.
* Created application documentation to assist in the support and training of users.

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

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

**Performance Test Engineer**

**Location:**

**Responsibilities:**

* Gathered and analyzed business and technical requirements for **Performance Testing** purposes.
* Discuss various testing activities and results during the daily status meetings.
* Good knowledge on functional requirement specifications, technical design documents and related artifacts.
* Developed Test Cases, Test Strategy, and Test Plan based on the non-functional business requirements to meet **SLA** timings.
* Preparing test schedule and ensure to follow the time lines and deliveries in time.
* 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 times** and detailed infrastructure component performance (Servers, Databases, and Networks)
* Extensively used **Performance Monitors** to analyze the **System Bottlenecks** like **Memory Leaks**.
* 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 scriots, test plan using **JMeter** and also debugged and validated the Test scripts.
* Scheduling automation build executing of **JMeter** PNF Regression Test using Maven and Jenkins.
* Developed and maintained GitHub repository for **JMeter** PNF regression test project.
* Executing different types of Performance Tests with defined user loads captured from live and business expected volumes over a period of time. Types of performance tests include standalone testing, platform regression testing with normal and peak load.
* Implemented scripts using LoadRunner for **WebServices**, **Oracle** and **Citrix** applications.
* Experience in web based applications with **Load Balance Testing.**
* 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 Final Performance Report by consolidating all the data gathered from the Performance Tests.
* Expert in creating **SQL queries** against **Oracle**, **MSSQL** server and **DB2**.
* Validate the application functionality which acts front end for the customers.
* 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,looked into **AWRreports** and identified the bottlenecks in the system.

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

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

**Performance Test Engineer**

**Location:**

**Responsibilities:**

* Coordinated with business team to get the performance requirements for the Load Testing, Stress Testing and Capacity Planning.
* Collaborated with architecture and development teams to analyze the application's core functionalities and its various dependencies for effectively identifying potential bottlenecks.
* Tested Performance of Web Application and Generated Automation Test scripts using **LoadRunner**.
* Actively participated throughout all phases of the **Software Development Life Cycle (SDLC).**
* Setting up test environment and ensure all the dependant systems are connected and working fine with appropriate test data setup.
* 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 Quality Center.
* 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 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**.
* Attended various meetings to figure out Defects and Status of the task to resolve the bugs.
* 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, Performance Center, Mainframes, MS Access, Windows 7/XP.**

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

**Performance Engineer**

**Responsibilities:**

* Gathered Performance testing requirements and developed **Performance test plan.**
* Install and configure **LoadRunner** (Vugen, Controller and Agents).
* Creating various scenarios to test the functionality
* Identified, isolated, report and track defects in the defect tracking system.
* Recorded Scripts using VuGen with web http/html and **WebServicesprotocols.**
* Created, executed and maintain test cases to perform all aspects of verification, including functional, regression, automation and system testing.
* Performed **Testing Reports** developed for entering the customers.
* Parameterize and correlate the scripts.
* Analyzing 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.**

**Sree Daksha IT Solutions, Hyderabad, India.** Nov 2008 – Feb 2010

**QA Test Engineering**

**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 according to 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.
* 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 response times of various business transactions, modules login times under load, developed reports and graphs to present the test results.
* Tested the whole site for any broken links and against **Webdesign** standards like fonts, colors and localization.
* Tested for the compatibility of the Browser.
* Testing the 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.**

**Education**: Bachelor’s of Technology, India.