**SANDEEP CHERUVU**

**Sr. Performance & QA Tester**

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**SUMMARY**

* 13+ years of Quality Assurance experience with strong expertise in **Performance/Load** & Stress Testing using **HP Performance Center**/Load Runner and **manual testing**.
* Experienced on Mercury Test Suit **(Test Director/ HP Quality Center, Load Runner.**
* Extensive experience in automated testing of Web based and Client/Server applications with proficiency in Load and Performance Testing. Good experience in agile methodology.
* Extensive knowledge in Performance Test Life Cycle.
* Used various monitoring tools like **HP Site scope** and **HP Diagnostics**, to keep track of the test performance and identify various bottlenecks.
* Ability to interact with developers and product analysts regarding Testing Status and Defect & Change Tracking using **Quality Center, Azure DevOps.**
* Execution of Manuel Test Scripts and responsible to track and log the defects using QualityCenter, **Azure DevOps**.
* 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.
* **Strong experience writing SQL queries for back-end testing, UNIX commands for verifying log files, shell scripts to bounce/maintain QA servers, database refresh for QA environments, XML API testing.**
* Proficiency in testing the applications compatibility on UNIX and Windows platforms.
* Extensive experience using performance test tools such as NeoLoad and/or HP Performance Center.
* Performing System Testing skills include Black Box, Smoke, Regression, Integration testing, User acceptance Testing
* Strong process and documentation skills for performance testing/engineering.
* **Experience in Performance testing of Web applications and Client/Server by using Load Runner.**
* **Efficient in developing and deploying Integrated Applications using webMethods Integration Server.**
* **Provide production support for webMethods Applications and resolve issues.**
* Expertise in Manual and Automated Correlations to Parameterize Dynamically changing Parameters values
* Well versed with all functionalities 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
* Experienced in monitoring **CPU, Memory, Network, Web connections and through put while running Baseline, Performance, Load, Stress and Soak** testing
* Expertise in tracking defects using tracking tools such as Quality Center and Clear Quest
* Good understanding of object-oriented methodologies, software development life cycle (SDLC) and software testing methodologies.
* **Expertise in Integration testing, Sanity/Smoke testing, and Functional Testing, Regression testing, System testing, and UAT, Usability testing, and performance testing manually and using automated testing tools.**
* **Experience in Ecommerce and Health care, knowledge in Member, Claims, Adjudication, Portfolio**
* Experience of 8 years in HP Quality Center and 3 years in HP ALM 11.5, **5 years in Azure DevOps.**
* Proficient in writing, executing and managing Test Cases, Bug Reporting and Tracking Defects using HP Quality Center and Bugzilla and knowledge of JIRA.
* Knowledge of Cucumber tool and Gherkin language.
* Good Knowledge of SoapUI, Rest API WebServices and SOA.
* Good experience in analyzing changes and identifying areas of the application to be Regression tested.
* Proficient in Cross Browser testing of applications on Google Chrome, Internet explorer, Safari and Firefox browsers and Cross Platform testing on Windows, iOS Android.
* Developed Test Plans, Test Cases, Test Scripts and Test Scenarios from business technical and functional specification documents for manual and automated requirements in QA Life cycle using Quality Center and Application Life Cycle Management ALM.
* Developed comprehensive test plans, test cases, test scripts, and test scenarios based on business, technical, and functional specifications, supporting both manual and automated testing using **Playwright** and **Appvance**.
* Actively involved in Software Testing and Documentation, Analysis of the Business Requirements and functional specifications.
* Good experience in creating, modifying and enhancing both manual Test cases and Test Scripts created in selenium WebDriver & Code Coverage Analysis.
* Working experience with defect tracking tools like Clear Quest, Jira and Bugzilla.
* Experience in testing both SOAP and REST services using SOAP UI, Tested both XML and JSON formats.
* Experience with preparing the traceability matrix.

**TECHNICAL SKILLS**

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| Operating systems: | Windows NT/2000/XP, Unix, Linux |
| Programming Languages: | C++, C, VB6, VB.Net, Java |
| RDBMS: | Oracle, MS Access, SQL 2000, MySQL |
| HP Test Suite and Tools: | Win Runner, LoadRunner, Quality Center (Test Director), Micro Focus, Performance Center, VuGen, NeoLoad, Monitoring tools, Sitescope, WinSCP, IBM SA, Jmeter, Vmstat, Perfmon, AppVance, Playwright. |
| LoadRunner Protocols: | Web (http/html), Winsock, Web/Winsock Dual Protocol, Ajax TruClient, GUI, Click & Script, Web Services. |
| Application Tools: | MS Office, MS Project, MS Visio, Visual Studio .Net |

**PROFESSIONAL EXPERIENCE**

**Peraton, San Diego, CA**

**County Of San Diego, San Diego, CA**

**Role: Sr Performance Tester/ QA Tester Mar 2014 – Till Date**

Peraton is the County of San Diego’s outsourcing contractor for Information Technology (IT) and Telecommunications. The County of San Diego is one of the most award-winning and innovative government agencies in the United States. PERATON provides IT services to the County through five distinct frameworks: Help Desk, Applications, Desktop, Network and Data Center. In addition to that here in San Diego, Peraton also manages two remote Data Centers and one Help Desk facility which provide support to the County’s operation. PERATON provides IT services to the County on different applications such as IPTS, 3Par, Elections and voter registration, law enforcement, Property records, Tax collection, Public health, HHSA and social services.

**Responsibilities:**

* Responsible for all phases, planning, developing scripts, creating scenarios in performance centre, execution and analysing the report in analysis.
* Developed scripts on latest version on Vugen 24.3 according to test specifications/ requirements and did the Parameterization, Pacing, and correlation.
* Developed scripts on various applications such as .Net, Java and EMC Documentum
* Created Load Runner scenarios in performance center (LoadRunner Enterprise 2024.3) and scheduled the Virtual Users to generate realistic load on the server using HP performance centre (Load generator machine).
* Configured the servers in Sitescope 11.92 to capture server metrics and check the behaviour of the servers to find out the root cause.
* Worked as a Sitescope admin.
* Raised tickets with PERATON SAAS Support team to debug the issues.
* Perform large-scale load volume end-to-end testing using large users’ data files
* Used Virtual User Generator to generate VuGen Scripts for Web (Http/Html), .Net and Web Services protocol, TruClient IE.
* Carried out stress testing by introducing rendezvous points in the script
* Configured and used IP Spoofing in LoadRunner to simulate a more realistic testing scenario.
* Involved in conducting Verification, Benchmark test, stress tests, Fail over and volume tests against the application using HP performance Centre.
* Performance tested to determine system latencies on Windows and Linux
* Coordinated with Business Users to understand business needs and implement the same into a functional Data warehouse design.
* Created a batch file to simulate folder and document creation on server to load and simulate equivalent load on production server to check the behaviour of the server.
* Successfully configured QC to integrate functional test scripts and prepared for execution.
* Created and modified performance scripts for Web based applications using Neotys NeoLoad with multiple protocols.
* Developed and implemented load and stress tests with Neoload (Load testing tool) and presented performance statistics to application teams and provided the performance report of all the activity done and suggestions on the upgrades needed and how much user load current production can handle with the current architecture.
* Expertise in configuring and monitoring webMethods components.
* Developed framework from the scratch for using Cypress to automate UI and used Java script, NodeJS and NPM for Angular based user interface.
* Performed UI and API testing using Cypress and created from framework from the scratch.
* Involved in testing Web services and XML with tool called SOAP UI and using this tool to locate WSDL file on internet, create Test cases and run them.
* Created data-driven automation scripts for testing API Web Services using Postman and Tested RESTFUL API using Rest Assured.
* Involved in budget estimations for performance projects with the internal team.
* Developed scenario-based testing for the JMeter scripts.
* Created, scheduled and ran the scenarios using JMeter and generate necessary graphs
* 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

**QA**:

* Participated in daily stand-up meetings for project status updates.
* Analyzed requirements documents and HTML wireframes to ensure alignment with technical and business needs, identifying gaps and discrepancies that improved clarity and supported more efficient design-to-development workflows
* Developed manual and automation test cases based on Test Plan.
* Developed test cases for new business scenarios and uploading the same in Azure DevOps.
* Performed Functional, Regression, GUI, and Usability testing using Azure DevOps.
* Performed Backend testing by creating and executing SQL queries.
* Conducted thorough peer reviews of test cases authored by team members, enhancing quality and consistency across test artifacts.
* Mapped Business scenarios to Test Cases.
* Performed Webservices testing using SoapUI tool.
* Facilitated cross-functional collaboration between development and business teams during system testing, ensuring clear communication of requirements, progress, and issues. Established dedicated channels and regular touch points to maintain alignment and visibility.
* Performed execution of Test Cases and logging defects in Azure DevOps.
* Actively participated in test reporting and issue resolution, ensuring all stakeholders stayed informed and alignment was maintained throughout the testing lifecycle.
* Interacted with the development teams for issue clarification and bug fixes.
* Prepared daily status reports and communicated the same to management.
* Developed comprehensive test plans, test cases, test scripts, and test scenarios based on business, technical, and functional specifications, supporting both manual and automated testing using **Playwright** and **Appvance**.

**Environment:** StromRuner Cloud, Micro Focus Vugen 2020, HP QC, Loadrunner 24.3, performance centre(LoadRunner Enterprise 2024.3), SiteScope 11.92, CRM Visual Studio Ultimate 2013, JMeter, Windows 2000/XP, SOAP UI, SQL Server. Java, Selenium WebDriver, Cypress, Java script, Kafka, Azure, Devops, NPM, NodeJS, Jenkins, Maven, TestNG, Appium, Android Studio, Xcode, IntelliJIDEA, SOAP UI, QC, XPATH, CSS, HTML, XML, SQL, Oracle, MacBook, Playwright, AppVance, Azure DevOps.

**APPLE, Cupertino, CA**

**Role: Performance Analyst** **Mar 2013 – Feb 2014**

**AIDE:** AIDE is a cloud based diagnostic service implemented on Apple Cloud infrastructure to handle diagnostics of apple hardware. Aide is implemented based on WebSocket technology and uses custom protocols to communicate between device being diagnosed and AIDE services. AIDE- core engine runs the diagnostics tests on UUTs that are connected and publishes the diagnostics results. AIDE uses MongoDB for saving data at the backend datastore and sends data to several systems within Apple including GBI.

**Apple Instant :** Is a caching engine which caches search engine results and serves to apple customers. Apple’s store search, support searches, HR, main product searches like iphone, ipad, mac etc are powered by Apple Instant. Apple instant also provides. Auto completes for apple search tab. Apple Instant is a webservice used by apples different business units to search across multitude of data. Architecturally it is hosted on Weblogic Web servers and used mongo db for data stores.

**Responsibilities:**

* Worked as the main functional QA and Integration tester - developed functional tests, integration tests covering multiple scenarios.
* Executed functional tests for diagnostic console, JMS, aide core engine, mongoDB validation etc.
* Worked with IT team and carried out tests starting from client end to aide to backend platforms receiving diagnostic data.
* Configured the LoadRunner controller for running the tests. Verifying that the LoadRunner scripts are working as expected on different Load generator machines
* Developed Vuser scripts using LoadRunner Web (HTTP/HTML), SAP WEB protocol based on the user workflows
* Extensive functional testing of AI API’s between 3.5 and 4.1 versions. Used Jmeter to test the API’s and also for performance testing.
* Developed Load Test Scripts by using LoadRunner for entire site and did the Parameterization, Pacing, and correlation.
* During API validation, created JMX files to exhaustively test the API name, value params for large data sets.
* Responsible for all phases, planning, developing scripts, execution of performance center scenarios and analysis.
* Before starting performance tests, conducted basic sanity checking for API’s
* Created and executed API based test cases for newer API and any APIs undergoing changes.
* In performance/load/stress testing, focused on following scenarios:
  + without the AI caching layer performance of the search results for end user
  + with 50% cached queries
  + with 100% cached queries and gather performance metrics like (a) response time per query (b) throughput (c) data size (d) based on the SLA, any query which had higher res.time than the SLA value (timeouts)
* Prepared data sets from production servers - 500K to 1M for each data run.
* Tested for certain client for backward compatibility.
* In addition, during peak traffic and new product launches supported our production traffic monitoring. We have Splunk system enabled which indexes our request access logs generated by Weblogic servers. We filter these logs depending on the API, client, and language and provide statistics for upper management.
* Analysed the results with team members and made some recommendations, after making some changes to the data.
* Setup meetings with the team members for the discussion on Performance issues.
* During Perf/load tests, monitored system parameters like CPU, memory utilization, disk space usage and file any radars for utilization excess or memory leaks.

**Environment:** Jmeter, Loadrunner, **Performance** Center, Diagnostic Tool, Windows 2000/XP, SOUP UI, SQL Server, HP Quality Center.

**General Motors, Detroit, MI**

**Role: Performance Tester Jun 2012 – Feb 2013**

**Responsibilities:**

* Developed Load Runner test scripts according to test specifications/ requirements.
* Identify and eliminate performance bottlenecks during the development lifecycle.
* Work closely with software developers and take an active role in ensuring that the software components meet the highest quality standards.
* Gathered business requirement, studied the application and collected the information from Analysts.
* Analyzed Business Requirements and developed Test Procedures, Test Cases using Quality Center.
* Executed all the test cases using the Quality Center
* Involved in Functional Walk-Through to validate the Application Design against the Test Cases written.
* Tracked defects using Quality Center.
* Defects were logged and tracked using Quality Center and updated the defect descriptions according to the development and testing progress.
* Independently developed LoadRunner test scripts according to test specifications/requirements.
* Identified functionality and performance issues, including deadlock conditions, database connectivity problems, and system crashes under load.
* Load and stress tested an intranet online procurement application.
* Load and stress tested a clustered Business Object's Web Intelligence deployment.
* Determined the scalability of the clustered configuration and benchmarked the cluster's performance under load.
* Developed a very flexible and dynamic script that allowed for fast configuration changes during testing.
* Verified load balancer setting using IP spoofing feature of Performance Center to discover issues with load balancer due to IP sticky.
* Created Web Service and MQ scripts using Web Services and Java Protocol in LoadRunner
* Conducted all tests in the Controller by creating 100, 200, 400 virtual users for load,
* Stress and steady state test respectively.
* Performed Data Driven and Security Testing.
* Work closely with software developers and took an active role in ensuring that the software components meet the highest quality standards.
* Responsible for all phases, planning, developing scripts, execution of performance center scenarios and analysis.
* Used HP Diagnostics to check back-end calls and their response times for debugging high response times for a transaction in various applications.
* Manually correlated the opportunity Ids, to save the dynamically changing opportunity id’s into a parameter by going to the body of the server response in the LoadRunner
* Used Web\_Reg\_Find function to search for the text to see if the desired pages are returned during replay in Virtual User Generator
* Changed the runtime settings such as pacing, think time, Log settings, browser emulation and timeout settings in LoadRunner VUGEN and controller to simulate the real scenario.

**Environment:** LoadRunner, Performance Center, Quality Center, Test Director, JavaScript, SQL, Java, JAVA, J2EE, IBM SA, .Net, JSP, IIS, XML/XLST, Oracle, ERP, CRM. LoadRunner Analysis, HP Diagnostics, VB Script.

**Education:**

Bachelor’s in engineering from Kakatiya University, India, May 2006

Master’s in information technology from Sullivan University, KY, USA, Dec 2011