**Vikram**

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**Summary:**

* **7+ years of experience on Performance testing** of client-server, web services, and web based applications with different skills on technical, functional and compatibility testing using industry leading tools LoadRunner, Quick Test Professional and Quality Center.
* Understand the Entire SDLC, to bring in the best practices and methodologies.
* Extensive Experience in Testing Methodologies like **Non Functional Requirements(NFR),** Integration, Black box, Smoke, Regression and Performance Testing.
* Strong on LoadRunner in **Virtual UserGenerator, Controller, Load Generators, Monitors, Analysis and Performance Center.**
* Creating the Scripts to meet load-testing requirements according to the **SLA (Service Level Agreement)** agreed upon**.**
* Experience in Automated Functional and Performance Testing **using BlazeMeter, JMeter, LoadRunner.**
* Good in LoadRunner Scripting concepts and Enhancements – Recording, Parameterization, Correlation, Checkpoints, Logs, Scripts Customization, Runtime Settings.
* Experienced on working with Load Model for User Distribution, Pacing, Wait Time and TPS for scenario steady state.
* Good Expertise in Performance testing of load, stress and endurance test.
* Good Expertise in Performance testing of **Multi-Tier Web-Based and Client-Server, Middleware, Database and ERP Applications and Cloud Application using HP LoadRunner.**
* Good Expertise in Scrum and Agile Methodology. Good Expertise in identifying bottlenecks using Wily.
* Expertise in utilizing Mercury **Quality Center (QC)** for reviewing web application requirements, creating test scripts, executing test scripts, and creating and tracking defects.
* Experience with the Release management process involving the QA role in the **SDLC.**
* In-depth knowledge of the software development life cycle and software testing methodologies. Ability to perform well under pressure and to handle multiple tasks concurrently.
* Strong Analytical and problem solving skills. Ability to work within a team, and if needed independently.
* Expertise in Automated testing tools including **Quality Center, Quick Test Pro, Business Process Testing and Load Runner**. Excellent experience in development of Automated Re-usable test scripts in VB Scripting Language.
* Expertise in **QA processes, Test strategies, and QA methodologies, Functional, Regression of Client Server and Web based applications.**
* Experience in testing enterprise wide applications on diverse platforms.

**Technical Summary**

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| **Operating Systems** | AIX, HP-UX, Solaris, UNIX, Windows XP,2000,2003, Vista, Windows NT and Linux |
| **Testing Tools** | **Load Runner 9.5/11.5/12.53, JMeter 2.13 version, Blazemeter, performance center 9.1/11, Quality Center 9.2/10.0, HP SiteScope, HP diagnostic (J2EE, .NET), JMeter 2.11 version, Distributed load execution, Visual VM, Blazemeter, Cloud watch, Monitoring tools** |
| **Defect Tracking Tools** | Test Director, Quality Center11.0, Jira, ClearQuest |
| **Tools** | Word, MS Excel, MS PowerPoint, Visio, Crystal Report |
| **Languages** | C, C++, VB Scripts, Shell Scripting |
| **Databases** | Oracle, MS SQL Server, DB2, MS Access, MY SQL |
| **Scripting Languages** | VB Script, Java Script |
| **Monitoring Tools and Protocols** | Wily Introscope, HP SiteScope, Tivoli, TeamQuest, Performance Center, Quality center, POS, Web (HTTP/HTML), web service,Oracle NCA, Ajax Tru Client, Silverlight |
| **Project Management / Analysis Tools** | MS Project, MS Visio, Clear Case, Clear Quest, Rational Requisite Pro and UML |

**Professional Experience:**

**Client: Nuveen Investment, Chicago, IL Dec 2016–till date**

**Role: Performance Tester**

**Description:** Nuveen Investments Inc. is a privately owned investment manager. The firm provides its services to individuals including high net worth individuals, corporations, endowments, and foundations. It launches equity, fixed income, and balanced mutual funds and hedge funds for its clients. The firm invests in the public equity, fixed income, and alternative markets across the globe. It conducts in-house research to make its investments.

**Responsibilities:**

* Worked closely with Business Analysts and Developers to gather Application Requirements and Business Processes in order to formulate the test plan.
* Developed scripts using LoadRunner by recording/playback and as well as by writing custom functions.
* Involved in test environment build and designed Load (capacity) model on the basis of current volume and projected percentage increase in volume.
* Developed VuGen test scripts in **LoadRunner** for Oracle forms and JSP pages using NCA and **HTTP protocols**.
* Interacted directly with developers, project managers for the development, execution and reporting of all testing efforts.
* Actively took ownership of defects and coordinate with different groups from initial finding of defects to final resolution.
* Tested the performance of site using BlazeMeter and with options for concurrent Access with nil and with fractional delays.
* Structurally, the **Java** language starts with **packages**. A package is the Java language's namespace mechanism. Within packages are classes, and within classes are methods, variables, constants.
* Analyzed Load Runner on-line graphs and reports to identify network/client delays, CPU /memory usage, I/O delays, database locking and other issues at server level.
* **Selenium** is not just a single tool but a suite of software's, each catering to different testing needs of an organization. Since Selenium is a collection of different tools, it had different developers as well.
* Responsible for Performance Tuning Java Application.
* Experienced in JMeter scripting & Large concurrent Load Testing through BlazeMeter
* Performed both automatic and manual correlation using the options in LoadRunner.
* **Workload modelling** of an application depicts how this application will be used in the production environment. In order to get such performance test results which, portray the true picture of **AUT** (Application under test), it should be tested on a workload model which is very similar to the production environment.
* Analyzed system usage information such as task distribution diagram and load model to create effective test scenarios.
* **Performance Measurement** is the regular collection of data to assess whether the correct processes are being performed and desired results are being achieved.
* **Performance profiling** is a process of investigating and analyzing a program’s runtime behavior to determine how to optimize the program’s performance.
* JMeter is an open source desktop Java application that is designed to load test and measure performance.
* Configured Web/Application/Database server monitoring setup using **LoadRunner** Controller.
* Used IP spoofing to generate and associate different IP addresses to Virtual Users to emulate real-time scenarios for load balancing issues.
* Activating / configuring monitors and adding desired performance counters into the Graphs.
* Performed SQL querying to validate the data in the back end data base, and also to check the data flow between different modules.
* Monitored the CPU, memory, and network utilizations on the UNIX server using **Site Scope monitor**.
* Analyzed results of Transactions Response time, Transaction under load, Transaction Summary by Vusers, Hit per Second and Throughput.
* Tested Custom Screens, Views and Applets in Siebel to suit the business requirements.
* Responsible for complete functional and regression testing, the Siebel application used to manage and maintain the leasing data in the company.
* Determined the source of bottlenecks by correlating the performance data with end-user loads and response times.

**Environment:** HP LoadRunner, HP QTP, Performance Center, JMeter, Sharepoint, Sitescope, C, VBScript, TSL, XML, HTML, MS Office, SQL, PL/SQL, WSDL, VTS, SOA, Crystal Reports, Web (HTTP/HTML), Performance Measurement, Performance profiling, Workload Modelling, Java Language, WebServices, XML Marker, WebSphere(WAS), IBM HTTP Server(IHS), Unix and Windows, HP ALM.

**Client: American Family Insurance (AMFAM), Madison, WI Jan 2015 – Nov 2016**

**Role: Performance Engineer**

**Description**: As part of the transition from Legacy systems to Strategic Solution, AmFam initiated a multi-year Systems Replacement Project (SRP).  The objective of the Systems Replacement Project to replace the existing Personal Lines and Commercial Lines Policy administration, Claims, Billing and related support systems with new state-of-the-art GuideWire system.  The project also includes creation of a data warehouse, enhanced reporting capabilities, and implementation of automated testing.

**Responsibilities:**

* Gathered the requirements and strategize a Test Plan, design scenario and execute test and reports and Results.
* Preparation of Business Process Flow Documents for the identified transactions.
* Developed all the VUser Scripts using the **LoadRunner 12.0 VUgen**.
* Involved for setting up and executing of the test cases, and capture data related to performance testing.
* Developed scripts and scenarios for automated testing new and enhanced web based products using **LoadRunner.**
* Responsible Performance testing, debugging, executing, analyzing complex applications using HP **LoadRunner** and **ALM HP Performance Center**.
* Creating and modifying tested externally on a global location.
* LoadRunner is one of industry standard load testing tool, which will provide the most accurate results and it is one of type of performance testing tool provide by HP vendor.
* Execution of scripts in Controller and Performance Center.
* Used Rendezvous point, Start and End Transaction, **Parameterization**, **Correlation** features in **Virtual User Generator** of **LoadRunner.**
* Performance measurements on different user load scenarios.
* Involved in complete Software Testing Life Cycle from analyzing requirements, test planning, developing test cases, test execution, JMeter 2.13 & 3.0 **using JVM/VirtualVM** for the diagnosis and monitoring Performance health of the network request and response, Monitored system Performance and captured Performance metrics using **Blazemeter**.
* Coordination with the application team to resolve the application issues.
* **JMeter** can be used as a unit-test tool for JDBC database connections, **FTP, LDAP, Webservices, JMS, HTTP**, generic TCP connections and OS native processes.
* Java technology is used to develop applications for a wide range of environments, from consumer devices to heterogeneous enterprise systems. In this section, get a high-level view of the Java platform and its components.
* Rational Performance Tester (**RPT**) is a performance testing solution that validates the scalability of web and server applications. Rational Performance Tester identifies the presence and cause of system performance bottlenecks and reduces load testing complexity.
* Performed performance stress/load test on web and windows based applications using **LoadRunner**.
* Created a scenario with certain amount of VUsers giving ramp up, ramp down and run time in the controller of Performance center.
* Created Reports/Graphs using Load Runner analysis tools.
* Responsible for **monitoring** the Test results, Transaction Response Time, measuring the CPU and Memory Utilization of the **Citrix Servers.**
* Ensured that **Citrix Servers** and **SQL Servers** can support the volume and system usage.
* **MySQL** is the most popular Open Source Relational SQL database management system. **MySQL** is one of the best **RDBMS** being used for developing web-based software applications.
* Perform the monitoring performance of the application and database servers during the test run using tools like **AppDynamics and SiteScope**.
* **Structured Query Language** or **SQL** is an abstraction of tuple calculus used for querying relational models.
* **Correlation** is the process of handling the data which is dynamically generated from the **server**.
* Analyzing the results bases on benchmark and publishing the Analysis Report at the end of every performance Run.
* SOASTA’s CloudTest uses a proprietary online analytical processing (OLAP) engine to analyze terabytes of data and provide a variety of test metrics in real-time.
* Closely working with performance management team in tuning the identified performance bottle necks and Retesting the application till these are either eliminated or minimized.

**Environment:**  LoadRunner 12.0, Performance Center 11.5, BlazeMeter, JMeter, Java, Selenium, SQL, RPT, SiteScope, Windows 7, Linux OS, SOA, UNIX, Web Services, SQL.

**Client: PNC Bank, Jersey City, New Jersey Jan 2013 – Nov 2014**

**Role: Performance Tester**

**Description**: PNC Financial Services Group, Inc. is a bank holding company and financial services corporation based in Pittsburgh. It operates in many sector. Its bank operates in 19 states and the District of Columbia with 2,459 branches and 9,051 ATMs. Fastest growing bank.

**Responsibilities:**

* Collaborated on writing test plans and choosing strategies, assist with setting up test environments and preparing data, tools, and hardware for testing projects.
* Participated in code reviews; maintain script code libraries; tested new code introduced into a function library, ensured that test scripts follow standards for design, coding, and documentation.
* Involved in Gathering Requirements, Business Processes and Peak volume necessary for Performance Testing.
* Used Performance center for managing Performance testing activities.
* **Python** is widely used general-purpose, high-level **programming** language. Its design philosophy emphasizes code readability, and its syntax allows **programmers** to express concepts in fewer lines of code than would be possible in languages such as C++ or Java.
* Developed scripts for .net & Java applications using **Web (HTTP/HTML) protocol**.
* Developed the **Load Runner** scripts in **VUGen** and created different scenarios in Performance center as per the requirements.
* Configured the Performance center hosts.
* **LoadRunner** is one of the best and simple tool used for P.T and it supports more number of protocol and technologies than any other tool used for **Performance Teting**.
* **ALM** is an enterprise application developed using Java 2 Enterprise Edition (J2EE) that can have MS SQL Server or Oracle as its back end and mainly ALM has 3 components **– Client, Application Server and Database Server**.
* Developed test execution scripts for Scrum and Agile Methodology.
* Audited and assisted in developing the Load Runner scripts and created different scenarios as per the requirements.
* LoadRunner is one of the industry standard load testing tool, which will provide the most accurate results.
* JMeter can be used to simulate loads of various scenarios and output performance data in several ways, including CSV and XML files, and graphs.
* **TestComplete** is a light-weight, resource-friendly add-on feature that allows testers to run automated tests and view test results on workstations that do not have TestComplete Platform installed.
* Verified that Web application performance meets the requirements for page response times, numbers of concurrent users, and system resource usage.
* Conducted load testing to collect and analyze information about how different user load levels affect the use of system resources and responsiveness.
* Configured the servers and monitored using HP Open View, wily.
* Provided testing project status information and create software testing results reports.
* Created Custom Analysis Templates to report results with legends, granularity etc.
* Used Actions and Re-Usable Actions in Quick Test Pro, for designing the Automation test scripts and executed in Quality Center.

**Environment:** Load Runner 11, JMeter, Programming, Performance Center, QTP, HP ALM, SQL, TestComplete, Quality Center.

**Ericsson Inc., Bellevue, WA June 2012 - Nov 2012**

**Role: QA / Performance Tester**

**Description:** Ericsson is a Swedish multinational corporation that provides communication technology and services. The company offers services, software and infrastructure in information and communications technology (ICT) for telecommunications operators, traditional telecommunications and [Internet Protocol](https://en.wikipedia.org/wiki/Internet_Protocol) (IP) networking equipment, mobile and fixed broadband, operations and business support services, cable television, [IPTV](https://en.wikipedia.org/wiki/IPTV), video systems, and an extensive services operation.

**Responsibilities:**

* Creating Project estimates and time lines for Design, Data Preparation & Execution based on complexity levels.
* Creating work flow diagrams to determine all possible testing paths including normal route, alternative routes and negative paths.
* **LoadRunner** is one of the best and simple tool used for performance testing and it supports more number of **protocols and technologies** than any other tool used for performance testing.
* Identifying the design & functional gaps and the regression risks in the requirement and the enhancement.
* End to end project testing effort capturing the complete Software Development Life Cycle Process (**SDLC**) through Requirement Analysis, Preparing Test Strategy, Test Plan, Test Cases to cover all Product functionality, Traceability Matrix, Test Execution, Defect Tracking, Metrics, Reporting and Escalation
* Executing the test cases and detecting defects.
* Retesting all fixed defect versions through a holistic approach.
* Creating automated scripts for the entire Integrated Eligibility System using the Test Complete using programming languages like Java & Visual Basic for designing and developing the Automation process within the **CHIMES** application using the TestComplete tool.
* **EcoSys** EPC (Enterprise Planning and Controls) bridges the gap that has traditionally existed between planning and managing project execution.
* Performance profiling helps the optimization of the application. Program analysis tools that examine the behavior of an application are classified as performance profilers.
* A virtual user script (LoadRunner Scripting) can be made up of a number of different sections, each performing a different action, with each section handled differently by the compiler and controller during test execution.
* **HP ALM** (Application Life Cycle Management) is a web based tool that helps organizations to manage the application lifecycle right from project planning, requirements gathering, until testing & deployment, which otherwise is a time consuming task.
* After load test execution, results are analyzed using HP LoadRunner Analysis tool. It displays the results in graphical form which makes analysis easy to find the possible cause of bottleneck.
* WebSphere MQ is a messaging and queuing middleware provider that can be leveraged via the Java Message Service (JMS) specification.
* Cross browser testing & Mobile Web based testing using multiple OS.
* Writing SQL queries to retrieve case specific information from the Client database to perform Regression Testing on identified scenarios that have been identified as possible issues.
* Data seeding & analysis on extracted case data.
* Conducting Performance Tests through standardized performance testing tools like **J-Meter & RPT** to analyze results.
* **EcoSys** provides visibility into cost and schedule performance at the Control Account level and at every level in the Integrated Master Plan (IMP).
* **JMeter** can be used to test performance of both **static** resources such as JavaScript and HTML, as well as **dynamic** resources, such as JSP, Servlets, and AJAX.
* Running automated Smoke test suites on all required Environments.
* Continuous monitoring of build specific environments and smoke testing on Eligibility for all cases based on specific data such as income and resources applicable for the household.
* Performing black box, functional, integration and regression testing.
* Detecting & reporting bugs using JIRA & classifying the bugs based on the severity.
* Track Test Case cycle and phases through JAMA.

**Environment:** TestComplete, JMeter, JIRA, JAMA, Microsoft, RPT, WebSphere MQ Messaging, PL-SQL, Hybrid (Waterfall –Agile) Methodology.