**Lilachand Ganesh Patil **

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**PROFESSIONAL SUMMARY:**

* Over 9 years of experience in **Performance engineering** with extensive knowledge of testing methodologies, and specialized in **Loadrunner**.
* A certified **Perfecto Mobile Specialist**.
* DynaTrace **APM Industry Associate** certified professional.
* Experience in different phases of Software Testing and Software Development Life Cycle (SDLC) including **Agile Methodology/SCRUM and Waterfall**.
* Expertise in using **dynaTrace, Monitorix, KafkaOffset Monitor, VisualVM, Wily Introscope, HP Sitescope, VMStat, NMON, GC Collector, Perfmon and JConsole** for server side monitoring.
* Experience working on various protocols such as **Truclient (Firefox), Java vuser, Web Http/Httml & GUI, Terminal Emulation (RTE) for Mainframes, Web Services, Oracle-2-Tier and C Vuser (for Message Queue- MQ), Citrix ICA**.
* Good knowledge of **XML, web services and XPATH**.
* Good understanding of C and JAVA.
* Good experience in performance testing of **mobile (iOS or Android)** native or hybrid applications.
* Extensive experience performance testing **Kafka cluster**.
* Extensive work experience in all stages of **Quality Assurance Life Cycle (QALC) and SDLC** right from Inception, Requirement Analysis, Design, Development, Testing through Implementation.
* Strong working experience across various domains like Banking & Finance, HealthInsurance.
* Expert in performance testing techniques to verify the systems performance and bottlenecks according to specifications and business requirements.
* Strong experience in preparing Performance Test Plans, Performance Test Strategy, Performance Test Scripts and Performance Test Analysis Reports.
* Extensive experience in performance testing of the **web applications, web services and backends (Oracle, Mainframes etc.) and Message Queues (MQ-middleware)** in Load Runner and analyzed in-depth reports like AWR for Oracle.
* Highly experienced with gathering and analyzing system specifications, production systems, and business requirements for full understanding of the business processes to develop and maintain flexible and reliable Test Plans, Test Cases, Test Scripts, and Test Scenarios.
* Experience with documentation of test results and report generation.
* Hands on experience in performing backend testing of databases by writing and executing SQL queries and using database tools.
* Demonstrated abilities with **scripting** languages by creating user defined functions and creating data driven scripts, creating **test suites**, and working with **databases.**
* Well versed with defect tracking and reporting system.
* Hands on experience in working with Windows and UNIX platforms.
* Proficient in **Onsite-Offshore** delivery model.
* Good in client coordination activities.
* Ability to ensure the QA project milestones are met and escalate during issues in a timely manner for addressable with project team.
* Excellent communication and interpersonal skills, ability to conceptualize and learn quickly, good analytical reasoning and high compliance to new technologies and tools.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Testing Tools** | ALM, Performance Center, Loadrunner, NeoLoad, Perfecto Mobile, ALM, Quick Test Pro (QTP), SOAPUI, iTko Lisa |
| **Monitoring & other Tools** | **dynaTrace , Wily Introscope, Splunk, Jarvis, GC Collector, BMC Bladelogic (BL),**  **Quality Center (QC), Sitescope** |
| **Scripting Languages/ Protocols** | **Truclient (Firefox),** **Java vuser**, Web **Http/Httml & GUI, Terminal Emulation (RTE) for Mainframes, Web Services, Oracle-2-Tier and C Vuser (for Message Queue- MQ), Citrix ICA.** |
| **Programming Languages** | C, JAVA,SQL, Python |
| **Database** | Oracle 10g, SQL Server 2008 |
| **Servers** | IIS, WebSphere |
| **Operating Systems** | Windows, UNIX/Linux, MS-DOS |

**PROFESSIONAL EXPERIENCE:**

**Employer: Pyramid Consulting, Inc. Dec 15- Present**

**Client: Comcast (Philadelphia, PA-USA)**

**Role: Sr. Performance Engineer/Dynatrace Admin**

**Responsibilities:**

* Excellent Team leadership skills, Strong project management and Interpersonal skills, involvement in full Software Development Life Cycle (SDLC).
* Involved in end-to-end performance testing life cycle.
* Involved in troubleshooting performance bottlenecks and providing recommendations.
* Developed scripts using various protocols like **Java Vuser, AJAX-Truclient (Firefox), Web Services, Web (Http/Html) & Citrix**.
* **Jenkins** integration with Performance Center.
* Develop Java Vuser scripts for Kafka Producers.
* Performance tuning of **Apache KAFKA Producer, Broker and Consumer.**
* Performance benchmark of the applications involving **JAVA, KAFKA, Cassandra and Postgres.**
* **Developed Python/JPype framework for JMX monitoring of Kafka.**
* **Developed shell script to monitor kafka using the command line tool.**
* Developed **Python** frameworks to analyze the logs and generate the reports.
* Kafka Consumer/producer code profiling using **YOURKIT** profiler.
* Thread/Heap dump analysis using VisualVM
* Heap and VM arguments tuning.
* Detailed GC logs analysis using GCEasy etc.
* Involved in work allocation to the team member and assuring the delivery on time.
* Used **dynaTrace, Monitorix, Sitescope, JConsole** for server side monitoring.
* Work as a Dynatrace admin. Install/Manage **Dynatrace** in the test environment. Prepare dashboard templates and share across the team.
* Working on high throughput projects involving **Hadoop, Kafka, PostGre**.

**Environment:** HP Loadrunner/ALM 12.02, JConsole, Dynatrace 6.3, Sitescope 11.XX, SQL Server 2008, .NET 4.0, JAVA, JConsole, Cassandra, Hadoop, Kafka, IIS 8.5.

**Employer: Pyramid Consulting, Inc. May 14- Oct 2015**

**Client: Wells Fargo (Charlotte, NC-USA)**

**Role: Performance Test Analyst.**

**Responsibilities:**

* Involved in requirement gathering & analysis, test planning, script development, data setup, test execution, analysis and reporting.
* Worked on a hybrid test approach for a project. Tested single user from mobile application (using Perfecto mobile) and full load for desktop application.
* Good experience working in the environment using **iTko LISA** as service virtualization tool.
* Worked on a middleware performance testing of **Websphere MQ (using java vuser).**
* Developed scripts using various protocols like **Truclient (Firefox), Web Services, Web (Http/Html), Java Vuser.**
* **Developed Unix shell scripts and automated using JSch (Java Secure Channel).**
* Developed java vuser script to connect to MySQL & oracle db, fetch the data and to prepare the report.
* Worked on the combined load testing where large number of applications were executed together every quarter.
* Good experience
* Used **dynaTrace, Sitescope, Introscope, JConsole** for server side monitoring.
* Responsible for the bottleneck analysis.
* Analyzed AWR reports for oracle performance.
* Prepared detailed final reports.

**Environment:** HP Loadrunner, ALM, Perfecto Mobile (cloud), Unix, JSch, dynaTrace, Introscope, Neoload.

**Employer: Infosys Limited Jan 13-Apr 14**

**Client: Bank of America (Charlotte, NC-USA)**

**Role: Performance Test Analyst.**

**Responsibilities:**

* Schedule project kick-off & PTR walkthroughs
* Requirement gathering and analysis.
* Responsible for developing Performance Testing Plan and Performance Testing strategy based on the business specifications requirements and user requirements.
* Owner of performance test environment. Approve the build migration from lower environment like SIT/CERT to PT environment.
* Developed VUser scripts using various protocols like Web Services, Http/Html and Citrix ICA protocols.
* Prepared data for Parameterization of the values in the scripts for multiple scenarios by querying the Oracle data.
* Responsible for executing different types of tests like smoke test, baseline test, Full load test, Stress test and Endurance Test.
* Analyzed the LoadRunner reports to calculate Response time and Transactions per Second.
* Monitored system resources (App server, Database) such as CPU Usage % of Memory Occupied VM Stat I/O Stat.
* Responsible for monitoring Net Stat to check the connectivity Load Balance and network traffic in each of the JVM's.
* Analyzed **Loadrunner and Wily Introscope metrics.**
* Analyze graphs **using Splunk and Tectia client for Linux servers**
* Used **Loadrunner/ALM, Wily Introscope, Sitescope, Jarvis, EMC Bladelogic, Splunk and GC Collector.**
* Developed weekly reports of Performance data and metrics.
* Involved in walkthroughs and meetings with Performance team to discuss related issues
* Participated in defects meeting to discuss the bottlenecks and long running queries.
* Coordinate with offshore team of 4.

**Environment:** LoadRunner, Performance Test Center, CA Wily Introscope, GC Collector, Linux, Jarvis, Splunk, WAS Console.

**Employer: Infosys Limited Sep 11 – Dec 12**

**Client: Wellpoint Inc (Anthem), Wallingford,CT.**

**Role: Performance Test Analyst.**

**Responsibilities:**

* Analyzed business and user requirements /specifications to ensure the application adheres to business standards.
* Responsible for developing Performance Testing Plan and Performance Testing strategy based on the business specifications requirements and user requirements.
* Scripted and executed load tests using LoadRunner.
* Developed VUser scripts and enhanced the basic script by adding Custom code (C code).
* Prepared data for Parameterization of the values in the scripts for multiple scenarios by querying the Oracle data.
* Introduced rendezvous points in the script for stressing the application for specific transactions.
* Responsible for executing different types of tests like smoke test, baseline test, Full load test, Stress test and Endurance Test.
* Performed testing for No load, Medium Load and Full Load and analyzed the system response.
* Responsible for performance monitoring and analysis of response time & memory leaks using GC Heap and throughput graphs.
* Analyzed the LoadRunner reports to calculate Response time and Transactions per Second.
* Monitored system resources (App server, Database) such as CPU Usage % of Memory Occupied VM Stat I/O Stat.
* Responsible for monitoring Net Stat to check the connectivity Load Balance and network traffic in each of the JVM's.
* Analyzed **AWR reports for Oracle** to capture long running queries.
* Used **Wily Introscope, NMON** for analysis.
* Developed weekly reports of Performance data and metrics.
* Involved in walkthroughs and meetings with Performance team to discuss related issues
* Participated in defects meeting to discuss the bottlenecks and long running queries.
* Coordinate with offshore team of (12 resources).

**Environment:** LoadRunner, Performance Test Center, Toad, Oracle 10g, Mainframes, RestFul webservices, SOAP UI, CA Wily Introscope, NMON, GC Collector, WebSphere, IBM AIX.

**Employer: Infosys Limited May 2009–Sep 2011**

**Client: Wellpoint Inc (INDIA)**

**Role: Performance Test Engineer.**

**Responsibilities:**

* Responsible for developing Performance Testing Plan and Performance Testing strategy based on the business specifications requirements and user requirements.
* Scripted and executed load tests using LoadRunner.
* Developed VUser scripts and enhanced the basic script by adding Custom code (C code).
* Prepared data for Parameterization of the values in the scripts for multiple scenarios by querying the Oracle data.
* Introduced rendezvous points in the script for stressing the application for specific transactions.
* Responsible for executing different types of tests like smoke test, baseline test, Full load test, Stress test and Endurance Test.
* Performed testing for No load, Medium Load and Full Load and analyzed the system response.
* Responsible for performance monitoring and analysis of response time & memory leaks using GC Heap and throughput graphs.
* Analyzed the LoadRunner reports to calculate Response time and Transactions per Second.
* Monitored system resources (App server, Database) such as CPU Usage % of Memory Occupied VM Stat I/O Stat.
* Responsible for monitoring Net Stat to check the connectivity Load Balance and network traffic in each of the JVM's.
* Analyzed **AWR reports for Oracle** to capture long running queries.
* Used **Wily Introscope, NMON** for analysis.
* Developed weekly reports of Performance data and metrics.
* Involved in walkthroughs and meetings with Performance team to discuss related issues
* Participated in defects meeting to discuss the bottlenecks and long running queries.

**Environment:** LoadRunner, Performance Test Center, Toad, Oracle 10g, Mainframes, RestFul webservices, SOAP UI, CA Wily Introscope, NMON, GC Collector, WebSphere, IBM AIX.

**Employer: Infosys Limited Dec2007-Apr 2009**

**Client: ABN-AMRO, India**

**Role: Performance Test Engineer**

**Responsibilities:**

* Analyzed system documentation like Requirements document, User Interface Specifications to develop and Execute Test scripts
* Designed Scenarios for the Load Testing.
* Performed parameterization in LoadRunner.
* Involved in Correlation and Parameterization for the script, to ensure the script runs successfully during replay. Monitored the activities through LoadRunner Controller.
* Recorded and enhanced Vuser Scripts by inserting Transaction points, Rendezvous points in to Vuser Script in LoadRunner.
* Collected various statistics using NMON to identify bottlenecks.
* Analyzed Software and Hardware components using Load Runner Analysis Graphs.
* Identified and Analyzed the Performance Bottlenecks and Memory Leaks.

**Environment:** Loadrunner 9.0, Java, Mainframes, Middleware, Oracle 10g, Wily Introscope, NMON.

## EDUCATION

* Bachelor of Engineering in Electronics and Communication –SRTMU, Maharashtra, India. Reference will be provided upon request.