Ram Babu Marpu
Performance Test Consultant

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Having **8.7+** years of IT experience focused on strengthening quality and performance testing of web-based applications across various domains. Accustomed to working within Agile and Scrum methodologies while monitoring performance and recommending tuning tips.

SKILLS

- Performance Testing
- Performance Engineering
- Application Monitoring
- SQL Query Tuning
- DB Tuning
- API Testing
- Web Services Testing
- Network Testing
- Functional Testing
- Automation Testing
- C, JAVA

PROTOCOLS

- WEB (HTTP/HTML)
- API, SMTP, XMPP
- WEBSOCKET
- SFTP, JDBC

TOOLS

- JMeter
- Load Runner
- Performance Center
- Load Ninja
- AppDynamics
- Dynatrace
- Splunk
- PerfMon
- SOAP UI & Postman
- HPALM-QC & JIRA
- Selenium
- Microsoft SQL Server
- MySQL, PostgreSQL
- Jenkins Pipeline
- Azure Devops Pipeline
- Git & GitLab
- GitHub & Bit Bucket
- Influx DB & Grafana
- Lighthouse Report

KEY QUALITIES

- Multitasker
- Troubleshooting
- Quick Learner & Analytical
- Decision Maker
- Adaptability
- Good Communicator & Presenter

AWARDS

- Several 'eAchiever' Award from client side.
- Multiple 'Star Performer' awards at TCS

CERTIFICATES

- ISTQB Foundation Level
- iSQI Certified Agile Essentials Foundation

EDUCATION

- B. Tech (ECE) – 2015 from JNTUK University

EXPERIENCE SUMMARY

- Having a solid 8.7+ Years of IT experience and specialized in Performance Testing and Performance Engineering of various web applications across multiple domains.
- Ability to understand the application functionality, architecture and identifying the NFR's and preparing PT Plans.
- Expertise in Test Script creation, Workload Modelling, Test Scenario Design, Test Execution practices, Test Result analysis, observations and Performance Tuning.
- Various types of Performance Test types - Baseline, Benchmark, Peak Load, Stress, Endurance, Spike and Scalability.
- Expertise in analyzing Key Performance Indicators (KPI's) like 95th Percentile Time, Average Response Time, Throughput (TPH/TPS), Hits/Sec, CPU and Memory Utilization etc., and identifying the performance bottlenecks.
- Good experience in conducting POC's for web applications with new test tools and optimising test data creation.
- Extensively worked in MySQL DB optimization, tuning slow and bottleneck queries.
- Good experience in working with technologies like Java and .Net applications.
- Engaged in CICD framework implementation involving Jenkins-Load Runner integration for client requirements.
- Good experience in conducting Performance Sanity Test for identifying performance hot spots at early stages.
- Expertise in deep analysis of Application Server logs and DB Server logs.
- Good experience in analyzing the SQL query explain plan, indexing concepts, re-writing complex JOIN queries.
- Basic Knowledge on JVM, Garbage Collection, Thread Dump and Heap Dump concepts.
- Engaging with the Clients to understand the NFR's and drive the complete PTLC towards successful delivery.
- Ability to liaise with multiple groups like – delivery, DBA's, developers, environment etc., to troubleshoot performance issue and resolve bottlenecks.
- Highly motivated, dedicated and interested to work in fast-paced challenging endeavours as strong team player as well as individually with excellent technical, analytical and communication skills.

WORK EXPERIENCE (Roles & Responsibilities)

*07/2024 - Present: Organisation: NCR Voyix. **Project:** Remote Teller, Teller Recycler*

- Deployment of code to PT environment which includes microservices, GCP cloud projects and Jenkins jobs.
- JMeter Script preparation for RT cash and cheque deposit flows and peak test execution, longevity test.
- Deep dive analysis using Dynatrace and GCP logs.
- Detailed test reports with comparison, hotspots and top web requests with high response times.

*05/2023 – 06/2024 : Organisation: Planit Testing. **Project:** Auto & General (A&G)*

- Executed various load test for Motor, Home, Home & Contents, Next gen car API's, CC Web screens, Doc upload.
- Prepared PT plans and test reports and app monitoring using New Relic tool.
- GitLab CICD Pipeline creation and Docker image set up for JMeter instance.
- Network testing using network one tool to analyse the performance of application during network fluctuations.
- Webpage performance analysis using Lighthouse option in chrome and recommendations.
- File transfer testing using SFTP sampler in JMeter to automate the atomic job process.

*03/2022 – 04/2023: Organisation: Tata consultancy Services Ltd. **Project:** South West Business Corporation.*

- Executed Baseline Testing on CoperniCUS application to derive NFR's.
- API Load Testing and performance analysis for both UI and Integration API's.
- Complete UI performance testing for deriving NFR's and detailed test report creation.
- Application Monitoring using AppDynamics and reporting defects.

*03/2019 – 02/2022: Organisation: Tata consultancy Services Ltd. **Project:** Unum - UK.*

- Handling end-to-end performance testing individually and directly reporting to customer.
- Responsible for recording scripts for different business scenario and script enhancement with using Load Runner Tool.
- Designed work load models in Performance Center using Little's law as per the requirement for AWD application.
- Continuous Production monitoring AWD application to study the user load pattern in peak hours.
- Analyzed results of Transactions Response time, Transaction Summary by Vusers, Hit/Second, Throughput and merged graphs using LR Analysis tool.
- Worked on a POC of Load Ninja tool for a Digital Unum application.
- Engaged in CICD framework implementation involving Jenkins-Load Runner integration.

*03/2016 – 02/2019: Organisation: Tata consultancy Services Ltd. **Project:** TCS – iON*

- NFR gathering, study of the application architecture, functionality and designed the load test strategy accordingly.
- Executed load tests in CLI mode for different protocols like Http/Html, XMPP and SMTP.
- Simulated heavy load test using JMeter Master- Slave model to test the overall application performance.
- Analyzed the 95% Time, Avg. Response time, Throughput and detailed test report creation.
- Collection of Server-side metrics (CPU Utilization, JVM Utilization) from TCS Mon IT tool.
- Executed a Load test to check the Load Balancer consistency and Web Server performance.
- DB server log is captured for the load test duration and the SQL queries consuming more time are analyzed.
- Detailed analysis of Application Server Logs and recommendations for excessive loggings.