

DUGGI RANGANADH BABU

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PROFILE SUMMARY:

- Around 10 years of diverse experience in Load, Performance Testing and Manual Testing.
- Possess sound knowledge of all performance testing project activities including requirements gathering, planning, designing scripts, debugging scripts, troubleshooting, creating test data, executing load tests & reporting observations.
- Excelled in Datadog, AppDynamics and Jprofiler performance monitoring tools for Performance engineering to find bottlenecks, diagnose code and find the error causing the performance issue.
- Knowledge of the Performance testing life cycle, leadership skills and the ability to work well with both business clients and technical teams.
- Strong theoretical and practical experience with various Agile approaches implementations.
- Excellent with parameterization and correlation.
- Extensive experience with baseline, benchmark, load, stress and endurance testing for performance.
- Strong analytical, problem solving, and organizational skills demonstrated by the ability to assimilate new information, understand complex topics and arrive at meaningful and accurate conclusions.
- Possess sound knowledge of JMeter and Gatling Performance Testing tools.
- Responsible for analyzing the application and components behavior with heavier loads and optimizing the server configurations.
- Fair understanding on Continuous Integration (CI) with Development and QA.
- Proficient in defining Workload Model and Performance Model of the application.
- Mapping forecast model into application demand and Capacity Planning with statistical analysis.
- Designed and Executed Load testing, Stress testing, Failover testing, End To End testing, Spike testing, Capacity testing and Endurance testing.
- Application Performance Management/Monitoring Expert.
- Good experience of Sizing the different server capacities.
- A keen communicator with honed interpersonal, analytical and problem-solving skills.

CORE COMPETENCIES:

~ Testing and Quality Assurance

~ Performance Testing

~ Script Creation

~ Issue Management

Key Result Areas:

Performance Testing:

- Responsible for measuring the performance of existing systems and applications.
- Created and maintained performance scripts as well as running tests and performing analysis using JMeter, Neo Load and Gatling.
- Oversee the execution of the load and capacity tests, results analysis and scalability recommendations based on findings.
- Responsible for managing Portfolio performance projects/release work to optimize the teams supply/demand planning, maximizing resource utilization.
- Responsible for monitoring the Memory utilization, CPU utilization, Throughput and Network connections etc.
- Responsible for Portfolio resource assignment of a global team and coordination between onshore/offshore team to ensure on time delivery.
- Developed and Implemented web services endpoint scripts using JSON & REST architecture.
- Designed and Developed performance automation framework and implemented in test life cycle.
- Performance test results analysis and metrics reporting to technical and non-technical stakeholders.
- Responsible for Identifications of Application bottlenecks of various transactions.
- Responsible for creating and analyzing performance metrics.
- Oversight of portfolio teams work products: performance strategy plans and results analysis.

- Performed the task of profiling using the different monitoring tools for the transactions that are categorized as performance bottlenecks.
- Provides guidance and direction to performance engineers and testers to ensure high standards of deliverables.
- Good experience on monitoring tools like Jprofiler and Datadog to drill down the performance bottlenecks.

Testing and Quality Assurance

- Providing scope, resource and time estimates for projects presented to QA for testing and analysis.
- Designing & coordinating implementation and availability of QA test environments
- Facilitating QA test status and progress reports as appropriate to top management
- Working with various Managers to ensure traceability from requirements through to QA Test Cases
- Configuring and manually testing software applications and developing test plans and test cases
- Preparing Test Strategy and Test Matrices also defining the scope of **testing** within the context of each release/delivery

Highlights:

- Conducted training on Neo Load, JMeter for the team members internally.
- Recommended changes to the testing tools which increased efficiency by 70%, reduced cost by 30%, and improved ROI by 30%.
- Received Best performer award.
- Developed improved Quality Assurance (QA) procedures and provided Quality Assurance (QA) management with quality improvement proposals using defect trend data and root cause analyses.

ACADEMIC DETAILS:

B.Tech. from Acharya Nagarjuna University.

IT SKILLS:

Database:	Oracle, SQL SERVER, Postgres
Languages:	C, Java, HTML, SOAP/Restful Web Services, SQL
Build Environment tools:	Jenkins, Bamboo
Tools:	JMeter,Gatling ,NeoLoad, Jprofiler, JConsole, APPDynamics, Visual VM,Toad and Fiddler
Reporting Tools:	Bugzilla, JIRA and Testopia
Operating Systems:	Docker,Windows, Linux and AWS

ORGANIZATIONAL PROJECTS

Vantez Systems Inc Piscataway,New Jersey,USA
Performance Engineer

Sep 2023 to Dec 2023

Description:

Accounts Receivable - Application Re-Engineering: HMS is pioneer in US Health Care Financial Services. It helps clients to ensure that healthcare claims are paid correctly and by the responsible party (Medicare, Medicaid and Commercial Healthcare Insurance companies). HMS-Accounts Receivable is part of ECenter and is a web-based application to manage accounts receivables of HMS clients. All the major functionalities like File Feeds, Batch Posting, AR Posting and Reports will be re-engineered from Mainframes to web based in the new system and handles 110 Providers.

Responsibilities:

- Gathered and validated non-functional requirements.
- Created a Performance Test plan and obtained approval from the stakeholders.
- Designed Performance Test scenarios and Test scripts using Gatling based on the non functional requirements.
- Executed Load, Stress and Endurance tests.
- Published the test results with internal stake holders.

Lookout Inc, Hyderabad
Staff Quality Engineer**Jun 2021 to Sep 2023****Description:**

The Cloud Access Security Broker (CASB) application is a powerful, scalable, and cloud-delivered security endpoint solution. It ensures the protection of data accessed from any device, regardless of location or the application being used, whether on-premises or in the cloud. This comprehensive solution offers both inline and API-based security measures, granting robust protection against threats. With its advanced capabilities, CASB provides deep visibility and control over users, data, and applications, enabling organizations to keep their workforce secure, flexible, and highly productive.

Responsibilities:

- Gathered and validated non-functional requirements.
- Created a Performance Test plan and obtained approval from the stakeholders.
- Developed test scripts to measure performance metrics of different micro services using JMeter tool.
- Created a performance test lab on AWS (Cloud) environment to maintain consistency.
- Responsible for the build deployment process and resolved the deployment related issues in the cluster environment.
- Designed Performance Test scenarios and Test scripts using Gatling based on the non functional requirements.
- Executed Load, Stress and Endurance tests.
- Measured the performance metrics for 1 TB CDD data scan.
- Measured the performance metrics of different micro services.
- Monitored the resource utilization like CPU,Memory of different micro services.
- Measured the End To End processing time from the time file upload to the cloud and events processing at different micro services.
- Analyzed performance reports which are generated based on the scenarios and identified the bottlenecks, memory leaks in different areas like client side and server side.
- Performed the task of profiling using Jprofiler, Datadog for the transactions that are categorized as performance bottlenecks.
- Documented and raised all performance issues in JIRA on a regular basis.
- Traced the root cause of the micro service crash and provided the subsequent corrective actions.
- Performed End-to-End Root cause Analysis on Performance bottlenecks and provided recommendations.
- Responsible for design and capturing the performance metrics for capacity planning.
- Captured Baseline metrics and benchmark test results to define the SLA's and send to stakeholders for approvals.

CipherCloud, Hyderabad
Principal QA Engineer**Nov 2014 to May 2021****Description:**

CipherCloud Gateway provides multiple highly secure data encryption and tokenization options to replace sensitive data with anonymous values that respect field configurations and formatting. Gateway delivers a comprehensive set of protection controls including Encryption, Tokenization, Activity monitoring, Data loss prevention [DLP] and Malware detection. Gateway preserves all native features and functionality of Salesforce, SAP SuccessFactors, Office365, Box, Adobe, and ServiceNow such as searching, sorting, reporting, and merging.

Responsibilities:

- Gathered and validated functional and non-functional requirements.
- Involved in preparing high level scenarios based on Agile methodologies for each scrum.
- Designed workload model and Performance model into application demand.
- Designed Capacity Planning with statistical analysis.
- Preparation of performance attribution and risk analysis reports to analyze the impact of investment decisions on performance.
- Created a Performance Test plan and obtained approval from the stakeholders.
- Designed Performance Test scenarios and Test scripts using JMeter based on the non functional requirements.
- Developed and Implemented web services endpoint scripts using JSON & REST architecture.
- Created a performance test lab on AWS (Cloud) environment to maintain consistency.
- Responsible for reviewing tasks like tests scripts and execution by a team and submitting for approval.
- Responsible for the build deployment process and resolved the deployment related issues in the cluster environment.
- Executed the different performance tests on Salesforce cloud application through CipherCloud Gateway with different load criteria and with different encryption schemes and tokenization schemes.
- Executed Load, Stress and Endurance tests on Salesforce one mobile application.
- Monitored the resource utilization like CPU,Memory,Network I/O and Disk I/O.
- Analyzed performance reports which are generated based on the scenarios and identified the bottlenecks, Memory leaks in different areas like client side and server side.
- Performed the task of profiling using Jprofiler, Datadog for the transactions that are categorized as performance bottlenecks.
- Documented and raised all performance issues in JIRA on a regular basis.
- Prepared Sizing metrics.
- Traced the root cause of Server Crash and provided the subsequent corrective actions.
- Performed End-to-End Root cause Analysis on Performance bottlenecks and provided recommendations.
- Responsible for design and capturing the performance metrics for capacity planning.
- Captured Baseline metrics and benchmark test results to define the SLA's and send to stakeholders for approvals.

SDG Software India Pvt Ltd, Noida**Feb 2014 to Nov 2014****Senior QA Engineer****Description:**

TruOps GRC solution provides a simple-by-design framework that can be calibrated to your IT Risk and Compliance processes to provide business insight and smart governance. Automation of your IT Risk & Compliance business process. It gives business leaders what they need to be smart risk managers. It speaks the same language with common nomenclature and standard risk & compliance metrics.

Responsibilities:

- Understood the requirements and preparation of estimations for the project.
- Prepared the test estimates based on scope and get approval from stakeholders.
- Designed Test cases and mapped the business requirements for agile testing methodology.
- Identify reusable test cases and create a reusable test suite.
- Created RTM in defined format.
- Performed system testing, regression testing, retesting and integration testing.
- Performed browser based testing and parallel execution of scripts.
- Created test suite and test cases run based on test groups to accomplish the testing activities at all the stages.
- Prepared system test summary report and circulated to respective managers