Jai Sharma

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Objective

My career objective as an Performance Engineer, with 6 years of IT experience, is to contribute to high-quality software development through finding the Performance bottlenecks. My aim to leverage my expertise in performance methodologies, SDLC phases, and management scenarios to create innovative and reliable testing solutions in a collaborative team environment. My goal is to continually push the boundaries of excellence in software testing, ensuring top-notch quality and reliability in the software application products developed.

Experience

Software Engineer   Jan 2018 - Present Cavisson Systems, Noida

- Reviewed and defined **Test Basis**, crafted **Test Strategies, Plans**, and documented **Test Cases**, successfully executing them
- **Performance Testing in the Banking domain like SBI, e-commerce** like **Nike** and **Healthcare using different performance tool.**
- Proficient in identifying test cases for **manual and Selenium WebDriver** based automation, covering smoke, Functional, and Regression Tests.
- Demonstrated expertise in **back-end automation** for functional testing, utilizing **shell scripts, Ant, and Needle framework**.
- Experienced in **applying Scrum (Agile) and Waterfall methodologies** to the testing process.
- Expert in defect **identification, reporting, and tracking using Bugzilla**.
- Competently set **up Kafka, IBM-MQ**, and **Tibco** applications with Docker for **JMS testing**.
- Utilized **RBU (Real Browser User)** tool to simulate real user behavior, measuring web metrics such as Response time, Rendering time, Dom load, On Load, Page Load, Page availability, and Page score.
- Conducted **performance audits, accessibility assessments**, and **SEO** evaluations of web pages using Lighthouse.
- Skilled in Netstorm tool for **Performance, Load, Endurance, and Spike Testing** on various websites.
- Collaborated with **cross-functional** teams to define and document test strategies, plans, and test cases.
- Communicated test findings and recommendations effectively to both technical and non-technical stakeholders.
- Demonstrated adaptability by successfully working **in Agile (Scrum)methodologies.**
- Utilized excellent problem-solving skills to identify and report defects using **Bugzilla/Jira**.
- Effectively coordinated with team members for setting up **Kafka, IBM MQ, and Tibco** applications using Docker for JMS testing.

Skills

Testing Tools:
Netstorm,
 JMeter,
Test Link,
Postman

Database:
SQL,
MongoDB

Continuous Integration/Deployment:
 Jenkins,   Docker

Version Control:
GIT

Testing Tools:
Netstorm,
JMeter,
Test Link,
Postman

Automation Tool:
 Selenium WebDriver,
 TestNG,
 Apache Ant,
 JIRA Tool,
 Jenkins

Messaging Systems:
 Kafka, IBM MQ Series,   TIBCO.

Testing Methodologies:

Agile Development:
Scrum,
Kanban,

Testing Techniques:

 Black Box Testing,
 Load Testing,
 Performance Testing,
 Endurance Testing,
 User Acceptance Testing, Quality
 Assurance Testing,

Test Management:
 Tools:
 JIRA Tool,
 Bugzilla,
 Test Link

Test Planning and Execution:

Business Requirements Review and Analysis,
Test Plan and Test Case Creation,
Test Scripting,
Test Estimation

Documentation:
Requirement Traceability Matrix,

Communication and Collaboration:
Tools:
JIRA Tool, GIT

Skills:
Cross-functional Collaboration,
Problem-Solving,
Adaptability

Additional Tools:
Postman: Used for API testing and collaboration,
Dev Tool (Chrome Browser)

Projects

- **Performance Testing in Banking Domain of SBI using JMeter:**

- Creating realistic user scenarios based on common banking operations: Login, View Account Details, Fund Transfer, Bill Payment, Statement Download, Logout

- Monitoring the performance bottlenecks like **Heap Dump, Thread dump and GC logs** using the **Visual VM** and **MAT**.

- Analysis and Reporting: Analysing the test results to identify performance issues and areas for improvement.

- Generated comprehensive reports for stakeholders.

- **Performance Testing using JMeter and LoadRunner to simulate a Real Browser experience (e-commerce domain like NIKE, KOHLS, JCPenney and etc)**

- Utilized JMeter and LoadRunner tools to simulate authentic user behaviour and measure important web metrics including **Response time, Throughput, Error** %, **Rendering time, Page Load**, Page availability, and Page score. These tests provided valuable insights into the performance of the web applications.
- Conducted API testing using Postman tool, ensuring the functionality, reliability, and security of the APIs. Also, performed API automation using Postman, improving efficiency and accuracy in executing repetitive test cases.

- Designed realistic user scenarios based on common e-commerce operations such as **User Registration/Login, Browsing Product Categories, Product Search, Adding Products to Cart, Checkout Process, Payment Processing, Order Confirmation, Logout**
- Implemented backend automation using the Needle framework, Apache Ant, and shell scripting for this project. This enabled seamless integration and smooth functioning of the tool, simplifying the testing process.
- Tested all the affected areas of the above feature. Logged defects through Bugzilla. Documented all the test case for the testing in test link.

- **JMeter for Testing Healthcare Domain:**

- The objective of the project was to conduct comprehensive performance testing on a healthcare domain application. The testing aims to evaluate the system's performance, scalability, and reliability under various conditions, ensuring optimal functionality and responsiveness for end-users for scenarios like **User Authentication/Login, Patient Record Access, Appointment Scheduling, Laboratory Test, Prescription Management, Log Out**

- Monitoring the performance bottlenecks like **Heap Dump, Thread dump and GC logs** using the **Visual VM** and **MAT**.

- Analysis and Reporting: Analysing the test results to identify performance issues and areas for improvement.

- Generated comprehensive reports for stakeholders.

- **Netstorm (A load generating Tool):**

- Implemented automation testing using Selenium, Maven, and TestNG for the Netstorm product.
- Integrated Selenium test cases with Jenkins to achieve automation pipeline, ensuring seamless delivery of result emails to all stakeholders.
- Logged found defects using Bugzilla for effective defect Tracking.

- **Distributed Load Generation (Web applications testing via generating load from different locations:)**

- Developed a comprehensive requirement traceability matrix to ensure all affected areas were covered in testing, resulting in improved test coverage.
- Created and executed effective test cases for this project using JMeter tool, promptly identifying and resolving issues reported by clients.
- Enhanced testing processes by implementing backend automation using Needle, resulting in increased efficiency and accuracy by 70%.
- Leveraged Selenium and Java, to automate the NVSM tool, reducing manual effort and improving productivity.
- Streamlined the testing process by integrating both backend and UI automations with Jenkins, facilitating seamless delivery of test results which increased the efficiency by 80%.

- **Java Messaging Services**

- Created the IBM-MQ , Kafka , Tibco ,Rabbit MQ setup using docker for quick deployment and efficiency.
- Tested the integration of IBM-MQ, Kafka, Tibco, Rabbit MQ services in NetStorm.
- Created all the test case, design document, test plan and test estimation for JMS integration with netstorm.

- **Net cache Hits - Header Configuration:**

- Testing of Net Cache Hits/Miss based on response Header for Akamai Tiered Distributed system.
- Created the Test Plan, design document, Testcases, on the basis of client requirement.
- Automated the whole process with ant-Apache needle framework.
- **Real Device Test Automation:**

- Testing of native and web application services on real Android, and iOS devices on either public or private cloud for multiple devices.

- Created and executed effective test cases for the NVSM tool, promptly identifying and resolving issues reported by clients.

Skills

Bachelor of Technology (B.Tech.) - Computer Science   2015
JRE Groups Of Institutions, Greater Noida

12th   2011
Vivekanand School, Anand Vihar, Delhi

10th   2009
Deep Memorial Public School, GZB, U.P