Zheng Ji Test Manager

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Donghua University, Computer Science & Technology, Bachelor, 2001 - 2005

**Self-Introduction**

14 years of software testing experience, proficient in performance testing, automated testing and test management.

* Extensive experience in performance testing, interface testing, system monitoring and tuning. Proficient in performance testing tools, including Loadrunner, Jmeter. Proficient in tools such as Fiddler and Postman.
* Proficient in the HTTP protocol. Familiar with system monitoring and tuning of JVM, MySQL, SAP ECC, etc. Familiar with Linux systems.
* 2 automated test framework development projects experience. One is developed based on HP QC/QTP. The other is based on Maven, TestNG, Selenium, HttpClient.
* Familiar with programming languages ​​such as JAVA, Python, and C. Familiar with Jenkins, Git and other CI/CD tools.
* Familiar with mainstream development frameworks. Developed interface test simulation server (Springboot), test encryption and decryption server (Node.js), application monitoring tool (Python), data warehouse monitoring system (Python Flask)
* 6 years of management experience (4 people). Onsite work experience in US. Fluent in English.
* Certified Consultant of HP Loadrunner and QuickTest Pro in 2007.

**Work Experience**

01/2010 – Present

**Tech Data (Previous Avnet), Test Manager**

* Develop test strategies, test plans based on project plans and requirements.
* Test projects management, develop and maintain test scenario, scripts, test data, and test results.
* Execute tests, test results presentation and issue tracking.
* Develop test tools, server monitoring deployment.
* Develop and maintain automated test frameworks to increase test automation rates.
* Responsible for test team technical training (Loadrunner, Python), team building.

12/2006 – 12/2009

**HP, Test Team Leader**

* Design test cases, develop performance test scripts, perform tests, and monitor test runs.
* Analyze and trace test issues, participate in problem resolution, and write test reports.
* Automated test script development. Test execution and maintain updated test scripts.
* Report test questions and coordinate to promote resolution.

06/2005 – 11/2006

**Huateng Software, Test Specialist**

* Participate in test projects, design test cases, perform tests, write test reports, and etc.

**Projects**

**Performance Test**

Responsible for core business system performance testing in North America, Europe, Asia Pacific, etc., including the following systems:

SAP ECC, CRM, SAP BI Portal, SAP BPC, Quoting, R2O, StreamOne...

* 01/2019: SAP Web Service performance test. Based on the Python Locust open source testing framework and the pyRFC interface to develop test scripts, complete the capacity test of the SAP data warehouse interface call.
* 05/2018 – 10/2018: Order Inquiry System Performance Test. Develop test scripts using Loadrunner. A middleware server based on Node.js was developed to solve the dynamic parameter problem of encrypted data transmission. Use Sitescope to deploy the application server, database server monitoring. In concurrent testing, stress testing, and stability testing, multiple performance issues and bottlenecks in application servers and databases are addressed, including compressed data transfers, optimized SQL, and optimized JVM parameters.
* 01/2018 – 04/2018: The single sign-on system interface test. Solved the security authentication problem of the SAML protocol and developed test scripts based on the protocol. Completed includes stability, security and concurrency testing.
* 08/2017 – 10/2017: SAP BPC Reporting System Performance Testing. Test scripts were developed based on Fiddler and Loadrunner. Developed monitoring tools using Python to solve batch task test monitoring problems.
* 2013 – 2018: Multiple SAP system performance tests were conducted. Lead the Chinese team to work with the US team to perform performance testing and tuning of SAP systems, ordering systems, and warehouse management systems. Developed application system test scripts based on protocols such as HTTP, Socket, SAP, and QTP. Used MySQL to manage master data and test process data streams. Tool developed in Python to monitor test data and logs. A few issues were found and solved in the test, such as load balancing, database indexing, hardware expansion. In order to simulate real-world multi-system joint testing, the business processes in test were complicated, the test environment was difficult to build. The testing team's continuous and efficient testing effort were highly valued by customers.

**Monitoring System Development**

* 03/2019: Built a monitoring and repair system for the SAP BW data warehouse using Python Flask, Bootstrap, Ajax, Json. The system provides easy and fast functionality to fix various exceptions that occur in data ETL. The main features include:
  + UI and frontend dashboard module (Flask, Bootstrap, JQuery)
  + Multi-threaded connection SAP background, using queue asynchronous data transfer.
* 05/2016 – 05/2017: Built a system monitoring platform. The system was built in Python to monitor business system availability and stability. It is designed of modular functions, flexible configuration and graphical interface display. Transaction response time, network latency, historical data charts and alarms can be monitored in real time. The monitoring data provides a baseline for performance testing and tuning.

**Automation Test Framework**

* 12/2018 – 03/2019: Developed an open source testing framework based on Jenkins, Maven, TestNG, Selenium, HttpClient, refactoring the various module functions in the original testing framework and supporting UI testing and interface testing. Based on the modules in the open source framework, the test data configuration module, the log module and the test report module are enhanced. An analog interface test server was developed based on Springboot.
* 03/2014 – 10/2015: Developed an automated test framework based on UFT, Quality Center. Designed by test object library, modular design and data driven methods. The framework contains: test object library, test case library, environment configuration, test data management, general tool library, log, report. The framework is applied to 2 test systems.