JieYun Chen

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Summary

Software engineer at IBM

- 12 years in IT industry. 9 years working experience as a storage system QA and test automation developer and 3 years working experience as an embedded system developer. 7 years working experience in leading multiple test teams.
- Rich experience in manual test and test automation.
- In depth understanding of SDLC methodologies – Waterfall and Agile.
- Hands on skills in BDD/Cucumber, Selenium, Java/Python development, CI and Jenkins.
- Familiar with IBM Storage System DS8000, Linux, VMware vSphere and IBM mainframe S390.
- As a self-motivated team leader, drive team to improve test quality and efficiency continuously and maintain good communication with stakeholders.

Skills

- Manual Testing – Baseline/Function/Stress/Interoperability Test
- Test Automation – Selenium, Cucumber, Gherkin, BDD framework
- REST API Testing – REST Assured
- JUnit & TestNG
- Git, Maven, Jenkins, CI
- Java, Python
- Linux, SQL
- SAN, FC/iSCSI protocol, VMware vSphere
- IBM Enterprise Storage DS8000, IBM mainframe S390
- Agile

Employment

International Business Machines (IBM)   **2007.07 to Current**

➢ **QA Engineer/Automation Developer, SAN Storage Interoperability   2018.04 to Current**
- Setup and configure SAN testbed that consists of entry level to high end IBM disk storage systems, Brocade and Cisco Fibre Channel switches and various OS, e.g. Linux, Windows, VMware.
- Run IO and error injection test.
- Pass VMware Storage Hardware Certification for IBM Storage.
- Develop test automation scripts in Python to configure SAN testbed and implement CI by integrating test scripts to Jenkins.

➢ **Team lead/QA Engineer/Automation Developer, DS8000 GUI FVT   2015.04 to 2018.03**
- As GUI FVT team lead, drive the team to complete DS8000 GUI FVT test with high quality and within schedule. Improve testing process, track project status and resolve impediments.

- GUI FVT test plan/test case design, test execution which is including Function Verification Test, Stress Test and Regression Test, test status report and defect open/track.
- Developed DSGUI Test Automation Tool to build up a Continuous Integration (CI) framework for DS8000 GUI development which can be used to make the build, test the build and report the result automatically. Used the following skills to develop this tool:
    - ✓ *BDD/Cucumber/Gherkin* – Build up Behavior Driven Development (BDD) framework through Cucumber. Translating DS8000 GUI regression test cases to the feature file using Gherkin which enhances the communication among developer, QA and product manager.
    - ✓ *Selenium WebDriver* – use Selenium WebDriver to automate DS8000 GUI regression test cases and implement Page Object Model (POM) with Page Factory in Selenium web automation.
    - ✓ *Maven* – use Maven to define project structure, dependencies, build and test automation.
    - ✓ *JUnit* – use JUnit assert to validate DSGUI web page content and use JUnit Annotations to run different test methods.
    - ✓ *Git* – use IBM GitHub to manage the project code of DSGUI Test Automation Framework.
    - ✓ *Xvfb/ffmpeg* – use "Xvfb" to run DSGUI selenium test on a "headless" server and use "ffmpeg" to record DSGUI automation test to capture every moment during the test then save it to a video file.
    - ✓ *Jenkins* – setup a CI environment on Jenkins to test DSGUI Test automation Tool.

- ➤ **Team lead/QA Engineer/Automation Developer, DS8000 Baseline**   **2010.04 to 2015.03**
  - As baseline team lead, drive the team to complete DS8000 baseline test with high quality and within schedule. Keep good communication with stakeholders and continuously lead team to improve test quality & efficiency.
  - Setup and configure Baseline test bed and execute build verification test to catch the core code breakage at the early stage in order to prevent Function Verification Test and System Level Test from being impacted by broken code.
  - Baseline test plan/test case design, test execution, test status report and defect open/track.
  - IBM Enterprise Storage DS8000, IBM mainframe server and open server daily maintenance.
  - Developed Baseline Test Automation Tool in Python to build baseline test execution platform. With the tool, tester can schedule/execute the test and collect log automatically and therefore baseline test efficiency has been improved significantly.

ZTE Corporation R&D Center   **2007.07 to 2010.03**
- ➤ **Software Engineer, ZTE passive optical access product ZXA10 C300 Development**
  - Design and implement different failover/failback solutions based on various scenarios.
  - Design and execute test cases, perform unit and integration test and resolve defects.
  - Shorten failover/failback switch time to make performance better than competitors' products
  - Develop GPON Line card MAC driver in C by integrating vendor's MAC chip software and perform Functional Verification Test, Stress Test and Performance Test to find bugs.
  - Track vendor's defects and help vendor to resolve defects by re-producing the errors and capturing the logs.

Education

Huazhong University of Science and Technology   **2001.07 to 2007.06**
- Master, Computer Software and Theory
- Bachelor, Computer Science and Technology

Language

- English. Second Language. IELTS Overall 6.5
- Chinese. Native Language

Patent

- EP2528271A1. *Method, passive optical network system and optical line terminal for enabling distributed protection. **Jieyun Chen***, Jinshu Lu, Wenjie Huang.
- CN200910160883. *A Dynamic Serial Number Management in PON System.* Jinshu Lu, ***Jieyun Chen***.
- CN200610166584. *Self-Adapted Secure Group Communication System based on distributed management Infrastructure.* Hai Jin, Deqing Zou, Yunfa Li, ***Jieyun Chen***, Huaizhen Jiang, Weizhong Qiang.

Publication

- *CI Practice in Jenkins. **Jieyun Chen***. IBM developerWorks, 2017.
- *CI Practice in DS8000 GUI Development*. ***Jieyun Chen***. IBM developerWorks, 2016.
- *A Method to Trigger Alarm for Single Peer-to-Peer Remote Copy Path*. ***Jieyun Chen***, Weiwei Ni, Zhiying Yu. IBM Published Disclosure CN820130964, 2013.
- *A method to backup & recover logical configuration for the storage system.* ***Jieyun Chen***, Hongfan Liu, Zhiying Yu. IBM Published Disclosure CN820110874, 2011.
- *Daonity - Grid Security from Two Levels of Virtualization.* Haibo Chen, ***Jieyun Chen***, Wenbo Mao, Fan Yan. Elsevier Information Security Technical Report, 2007.(ACM Indexed)
- *A Scalable Secure Service Scheme for Group Communication in Grid*. Yunfa Li, Hai Jin, Deqing Zou, ***Jieyun Chen***. Proceedings of Thirty-first International computer Software and Application Conference(COMPSAC'07), 2007. (EI Indexed)
- *A Digital Signature Mechanism and Authentication Scheme for Group Communication in Grid*. Yunfa Li, HaiJin, Deqing Zou, ***Jieyun Chen***, Zongfen Han. Proceeding of the 4th international conference of autonomic and trusted computing Springer Press, Hong Kong, China, 2007.(EI Indexed)

Certificate

- ISTQB Certified Tester, Foundation Level. Certificate No. 18-CTFL-137278-06
- IBM Certified Specialist, High-End Disk for Open Systems Version 1

Award

- IBM System Outstanding Technical Achievement Award for Leadership in Storage Development