孙 放

● 出生日期: 1988/03/20

• 联系电话: 18621705275

● 电子邮件: ads5ads5@yeah.net

教育背景: 2005/09-2009/06 华东师范大学 电子工程系 本科

2009/09-2012/06 华东师范大学 电子工程系 硕士

总结

•9年+测试/测试开发经验,掌握软件测试/开发生命周期,良好的编码规范

- •常用语言: Python, Shell
- •熟悉 Jenkins/Pipeline 解决方案在自动化测试中的应用
- •平台/工具: Linux, Git, Jira, Conference, Perforce, Bugzilla, VSphere, Jenkins, ZStack, Docker
- 熟悉BIOS firmware 测试自动化流程和解决方案
- •熟悉 SSD firmware 测试自动化流程和解决方案
- •熟悉 VMware VSphere, 分布式存储 VSan
- ●熟悉 ZStack 私有云/混合云集群, 熟悉云计算相关存储, 网络, 虚拟化知识
- •熟悉 IBM XIV 存储集群以及相关的存储知识

工作经验

Intel 2021/5 - 2021/9 BIOS Firmware 测试自动化工程师

• BIOS Firmware 测试自动化架构设计与开发

设计开发BIOS firmware 测试自动化系统, 为不同平台(PSS, Client, Server)的自动化提供统一的接口和解决方案, 极大的提升了系统的可维护性, 并降低了成本.

Micron 2019/8 - 2021/1 Firmware 测试自动化工程师

• Firmware 测试开发和维护

- 1. 开发和维护基于jenkins的回归测试平台,处理回归测试整个生命周期中遇到的各种问题,并为客户需求提供解决方案。
- 2. Jenkins Pipeline。 引入Script Pipeline来处理回归测试任务流. 极大的提升了可维护性。
- 3. Redis中间件。 用于基于模拟器的回归测试,引入redis作为两套测试框架的中间件,解决了测试框架 不统一的问题。

• 2nd Firmware 自动化系统开发

负责Node管理模块, 提供前端用户界面, 可统一管理和维护实验室的Node/DUT。

• 新员工指导和培训

指导新员工尽快熟悉产品和整体测试流程。

VMware 2018/6 - 2019/8 测试自动化工程师

• Python 测试自动化工程师:

- 1. 自动化 DevOps 工具框架开发,该工具实现 X86 集群 PXE boot 到用例执行整个生命周期。个人负责任务调度模块,基于依赖图实现并发的任务调度。
- 2. 基于 Json 的系统测试结果比较。对于相同测试用例的两次测试结果,抽取 log 中的核心结果, 输出可视化的 diff2html, 改进测试人员分析效率。

1

• VSan 系统测试/自动化测试: 执行 VSan 系统测试, 维护并修改相应的 Automation 代码。

ZStack 云计算 2017/04 - 2018/5 自动化测试工程师, 研发工程师

- Python测试工程师: ZStack-woodpecker(开源项目)自动化测试和测试框架核心开发
 - 1. 负责 test case 开发: 多个主存储, VPC, hot plugin cpu。
 - 2. 负责框架开发: 引入 test flavor 作为 test case 控制层面的另一个维度,极大增大可维护性。个人代码: https://github.com/zstackio/zstack-

woodpecker/blob/master/integrationtest/vm/vpc/test vpc two vm connection.py

- 3. Github 贡献超过 400 commit: https://github.com/ads6ads6?tab=overview&from=2017-5-01&to=2017-12-31
- **Java 研发工程师(2018/1=2018/5)**: ZStack 后端业务逻辑层功能研发。 负责模块: VMware 接管。 负责 feature: 接管 VMware 克隆, 迁移。
- •自动化测试 Nighly 结果分析: 分析 nightly 结果,及时反馈 bug 和维护自动化 case

爱立信 2015/02 - 2017/4 测试开发工程师

- **Python 自动化测试框架开发:** Python 实现的爱立信 EPG集群系统安装部署配置自动化工具软件, 并对自动 化测试提供 API 和 Functional 级别的支持。 工作内容包括 New feature design and implementation, Code maintenance and Bug handling, Code review, UT design。
 - 脚本开发: 为系统测试人员提供脚本支持。

IBM CSTL 2012/07-2015/02 软件测试工程师

- **系统测试:** IBM 分布式存储集群 XIV 的功能测试验证。工作包括但不限于 Test plan design, Test case execution, Bug report and verification.
 - •自动化测试: IBM XIV 分布式存储自动化系统测试。与以色列团队合作进行开发测试。 内部测试框架 Tlib+Python, 主要工作为 Test case design and implemation.

Sun Fang

• Contact: 18621705275

Email: ads5ads5@yeah.net

• Education: 2005/09—2009/06 East China Normal University electronic engineering Bachelor

2009/09—2012/06 East China Normal University electronic engineering Master

Summary

9 Years+ working experience in software engineering (Test /Test Automation/)

- Understand software development/testing lifecycle, good coding style
- Familiar with Python, Shell
- Familiar with Jenkins and pipeline solution on Test Automation
- Familiar with Linux, Git, Jira, Conference, Perforce, Bugzilla, VSphere, ZStack, Docker
- Familiar with BIOS Firmware automation solution
- Familiar with SSD Firmware test work flow and solution
- Familiar with VMware VSphere and VSan
- Familiar with ZSTACK private/hybrid cloud, and corresponding storage, network and virtualization
- Familiar with IBM XIV high-end storage system and related storage knowledge

Work experience

INTEL 2021/05 – Now Firmware test automaton engineer

BIOS firmware automation system design and implementation

1. Architecture design and implementation on BIOS firmware automation system, provide unified Automation library/interface on multiple platform(PSS, Client, Server), the new solution significant lower the maintenance effort, and save overall cost.

MICRON 2019/08 – 2021/01 Firmware test automaton engineer

• Firmware Regression test development and maintenance:

- 1. Develop and maintain Jenkins based Regression Test Framework, triage issues and provide solutions on the overall Regression life cycle.
- 2. Pipeline solution on Regression test. Introduce script pipeline to streamline the regression test workflow, As a replacement of free-style job, pipeline solution is much easier to maintain, save manual effort and overall cost.
- 3. Middleware solution. To enable GenSim Regress Test, Introduce Redis as middleware between Regression Test Framework and simulation test Framework.

• 2nd Firmware Automation system Development :

As owner of Node management, provide front end interface to better maintain overall Node/DUT on the lab.

• Mentorship on Junior engineer:

Coach junior engineer to speed up the ramp up on the regression relate knowledge.

VMWARE 2018/06 – 2019/08 software test automation engineer

• Python test automation engineer:

1. internal DevOps tool developer, the whole life-cycle beginning from the PXE boot to test execution. Focus on the test scheduler module. Achieve concurrency test scheduling via dependency graph

- 2. json based report comparasion. For one test case, compare two automation runs to show a visual report regarding to the result diff, this would help tester to triage.
- Vsan System test/Automation: execute VSan regression test, and do Automation bug fix.

ZSTACK 2017/04 – 2018/05 software test automation / software developer

- Python test automation engineer: Core developer in zstack-woodpecker project, focus on :
 - 1. test case design and implementation. Owned feature: multiPrimaryStorage, VPC, hot plugin CPU/Mem
 - 2. test Framework level design. Introduce test flavor as a outer control for case design, improve the code maintenance and readability. Personal code:

https://github.com/zstackio/zstack-

woodpecker/blob/master/integrationtest/vm/vpc/test vpc two vm connection.py

- 3. contribute more than 400 commits on github zstack/zstack-woodpecker project. https://github.com/ads6ads6?tab=overview&from=2017-5-01&to=2017-12-31
- **Zstack software developer:** Back end software developer. Owned module: vmware. Owned feature: vmware clone and migration
- Nightly maintenance: report bug and refactor test case through analyzing night result

ERICSSON 2015/02 – 2017/04 Software test tools developer

- EPG Test Automation infrastructure development & maintenance: AUTOTT -- Ericson EPG performance test Automation tools, AUTOTT automate all the tasks including install, reload, configure, start with regard to tools and nodes, and provide API to support testing.
 - Our task Included but not limited: New feature design and implementation, Code maintenance and Bug handling, Code review, UT design $_{\circ}$
- Tools/Scripts Developer: Handle requirements from the system testers for tools/scripts development.

IBM CSTL 2012/07 – 2015/2 Software test Automation engineer

- **Test Automation:** Automation tester of IBM high-end storage system XIV. Global Team work with Both QA and DEV in Israel. Include but not limited -- Test plan design, Code design and execution, Bug report and verification
- System test: Functional verification tester of IBM high-end storage system XIV. Global Team work with Both QA and DEV in Israel. Include but not limited -- Test plan design, Test case execution, Bug report and verification