G.V. Karthik Sainath

gollapudikarthik27@gmail.com

Quality Assurance ENGINEER

✆7019585261, 7660940651

Bengaluru

Objective:

Quality Assurance Engineer with having 4+ years of experience in software testing with automation in storage domain. seeking a challenging position in a reputable organization to broaden my knowledge and skills while making a significant contribution to the company success

Professional Summary:

Currently, I am working as QA engineer at Traegen System Pvt Ltd

- ➔ Good experience in server and storage domain in manual and automation testing
- ➔ Involved in developing and designing python automated codes using modules such as Pytest, logger, Paramiko, file handling, regex, sys, OOPS concepts, and JSON
- ➔ Testing the scripts using Pytest framework and analysing the results and reporting bugs
- ➔ Developing Automation scripts to manage storage systems and perform tasks such as backups, monitoring, and provisioning.
- ➔ Hands on experience in Linux, windows operating system and configuring testbeds
- ➔ Good working experience in updating firmware on server hardware like BMC, BIOS, CPLD and other different components
- ➔ Hands on experience on BMC validating with IPMI tool in band and out band
- ➔ Good working exp in storage protocols SAS, SATA,NVMe,SCSI along with topologies SAN n DAS and also transmission protocols – iSCSI, F.C, NVMe
- ➔ Good knowledge is SSD features like wear levelling, write amplification, garbage collection, and over provisioning
- ➔ Working knowledge of VMware virtualization and its features like Vmotion, SVmotion, XV motion, high availability, fault tolerance, distributed resource scheduler, snapshot, template, cloning.
- ➔ Expertise in various methods of testing – functional, regression, retesting.
- ➔ Good knowledge of software development life cycle, software test life cycle, bug life cycle
- ➔ Good working exp in git for code repositories and jira for bug tracking

Skills:

Languages	:	Python
Operating Systems	:	Ubuntu, cent OS, ESXI 7.0, windows Server 2019,2022
Storage Protocols	:	NVMe, SAS, SATA, iSCSI
Storage Devices	:	HDD, SSD, Storage Array, JBOD
Testing	:	Agile Methodology
Tools	:	FIO, IOMeter, Pycharm, IPMI, JIRA, Storcli, Mdadm, Vcenter, putty
Version control	:	Git

Education

Degree/Branch	University	C.G.P.A	Year of Passing
BTech-CSE	Hindustan University	7.6	2019

Professional Experience :

Currently working as software Engineer-2 at Traegen System pvt ltd from March 2020 – till now

PROJECT - 1 : *Validating pure storage flash array//X*

Description – This is an all NVMe module storage flash array runs everything from databases to modern cloud-native apps up to 8 chassis with form factor of 2U with dual controllers. Having lowest latency 250us to 1ms. Supports up to 94Tb – 915Tb raw capacity and up to 3.3 Pb effective capacity. Excellent performance with 99.99% availability when used in virtualization platform. leverages NVMe-of over fibre channel or Ethernet also supports SMB and NFS protocol.

ROLE & RESPONSIBILITIES –

- ➔ Preparing Testbed configuration
- ➔ Installing and updating firmware for drives and storage enclosure
- ➔ Developing python automated scripts to manage storage devices and perform tasks like creating Raid , disk partition, measuring performance like latency , throughput with different IO depth and block sizes
- ➔ Creating automated test scripts using Python modules such as pytest, logger, Paramiko, File handing, time, regex, sys, OOPS concepts, and Json.
- ➔ Validating the result with the test output and marking the testcase as passed or failed
- ➔ Developing testcases by using Pytest framework and developing automated codes
- ➔ Carryout regression testing every time, a new build is released
- ➔ Worked on features like creating volumes and mapping, hot spares, multi pathing, ORLM, ORCE, consistency check, hot swapping, snapshot, cloning, high-availability, RAID.
- ➔ Raising PR's and fixing review comments
- ➔ Raising BUG's, marking the priority and tracking them in Jira

PROJECT – 2 : *Testing features of pure storage flash blade//E*

Description – This is a high-performance, scale-out storage solution optimized for unstructured data workloads. Designed for handling demanding applications like A.I, M.L while providing efficiency and simplicity with capacity scalable up to tens of petabytes and millions of IOPS, low latency. It has 2U chassis with modular design for easy expansion which supports NFS, SMB, S3 protocols allowing versatility in deployment.

ROLE & RESPONSIBILITIES –

- ➔ Preparing Testbed configuration
- ➔ Installing and updating firmware for drives and storage enclosure
- ➔ Developing python automated scripts to manage storage devices and perform tasks like creating Raid , disk partition, measuring performance like latency , throughput with different IO depth and block sizes
- ➔ Creating automated test scripts using Python modules such as pytest, logger, Paramiko, File handing, time, regex, sys, OOPS concepts, and Json.
- ➔ Developing testcases by using Pytest framework and developing automated codes
- ➔ Measuring performance like IOPS, latency n throughput with different values of io depth and block size
- ➔ Carryout regression testing every time, a new build is released
- ➔ Worked on features like creating volumes and mapping, data protection, multi pathing, replication, snapshot, cloning, high-availability
- ➔ Validating the result with the test output and marking the testcase as passed or failed

- ➔ Raising PR’s and fixing review comments
- ➔ Raising BUG’s, marking the priority and tracking them in Jira