

Career Objective:

Senior Software Quality Engineer expert in engineering end-to-end **test automation suites** and rigorous manual validation protocols, ensuring seamless user experiences and the delivery of zero-defect enterprise software.

Profile Summary:

The "Systems Specialist" (Focus on Reliability)

Platform Engineer with a specialized focus on Server Operating System qualification and end-to-end software validation. Expert in bridging the gap between manual exploratory testing and automated execution frameworks to ensure high-availability platform stability. Proven ability to identify critical system-level bottlenecks and streamline deployment pipelines through rigorous testing of infrastructure components.

- Automated the Bare Metal as a Service (BMaaS) qualification process, cutting manual NAT gateway setup time by 80% and reducing monthly billing costs by 9% from 18+ AWS regions.
- Streamlined hybrid cloud operations through the qualification of i3.metal, i3en.metal, i4i.metal, m5d.metal, m6id.metal and z1d.metal with nutanix hypervisor, resulting in 99.99% improved system uptime and a more cost-effective data lifecycle management strategy.
- Standardized automated quality gates by engineering robust TDD and Integration test suites, streamlining the CI/CD pipeline and accelerating sprint velocity through early-stage bug detection.
- Orchestrated full-lifecycle QA for abbott project, encompassing the development of a comprehensive Requirements Traceability Matrix (RTM) and the end-to-end execution of strategic test plans to ensure 100% feature coverage.

Skillset:

Operating Systems	Linux and Windows
Virtualization	VMWare - ESXi and VCenter, AHV - Prism element and Prism Central
Languages and Framework	Python, Keyword Driven and Data driven Model
Tools	Jira, HP-ALM, ClearQuest, V-Sphere and V-Center, SSH-putty, Winscp.
Configuration Management Tool (Version control)	Tortoise SVN, Accurev and GIT
Protocols Worked	NTFS, VMFS, TCP/IP, FAT 32, EXT2, EXT3
Domain Expertise	1. Storage and Networking Components (SNC), 2. Class III Medical Devices

Education and Professional Experience:

- Graduated in Bachelor of Engineering from Kongu Engineering College (Anna University-Chennai), India.
- Currently working as senior technical lead in HCL Technologies, from Nov-2021 to till date.
- Worked as software consultant in Capgemini, from Feb-2013 to Nov-2021.

Certifications:

- 2024 – GCP Associate Cloud Engineer (<https://www.credly.com/badges/5b11864a-ecb7-402f-8ec8-ffa4e9f5d5a0>)
- 2020 - AWS Certified Cloud Practitioner (<http://aws.amazon.com/verification> - Id: NVFXQV4LJEFEQL9R)
- 2014 - Certified Dell EMC professional as “Associate - Information Storage and Management Version 2.0”

Project Summary:

HCL Project#4 Nutanix – Platform Test Engineer (Manual + Automation)

Nov-2021 to till date

Work location: Chennai, India

Nutanix software has been designed to integrate with hardware platform configurations certified OEM partners. Platforms include factory-installed turnkey appliances and industry standard x86 server models that Nutanix software can be installed onto.

Responsibilities:

- Working on OEM platform qualification which includes, AWS-BareMetal's and Hpe servers. Flexible to handle Automation and Manual test scenarios.
- Execute the identified test cases to find bugs, and ensuring that automated tests are run regularly to catch regressions.
- Working closely with development engineers to analyse and find the root cause of failures. And involved in executing scale-out customer deployment scenario test.
- Day-to-day work will be to perform bare metal qualification on public clouds like AWS as well as private datacentre servers.

Technology: Python, AWS, Virtualization, Jira, Jenkins, Git.

CG Project#3 Dell – Software Test Engineer (Manual + Automation)

Jul-2020 to Nov-2021

Work location: Bengaluru, India

Dell EMC XtremIO is Dell EMC's high-volume, high-capacity all-flash enterprise storage platform. The current version is the X2 line. The XtremIO X2 storage platform is primarily designed for applications that benefit from its data reduction and copy data management capabilities. It also targets organizations with large VDI deployments.

Responsibilities:

- Went through shadowing from client to vendor for a EOL product. Received an apt. training, task hand-over for the L2/L3 verification activities.
- Execution of regression testcases for the sustenance engineering team. Domain specific trainings, technology specific trainings and product specific trainings were upskilled as per the product needs.
- Worked as a SPOC for core features and do perform the POC's for any new attempts to explore with in team.

Technology: Python, ALM-QC, GIT, PyCharm, Jira, Confluence, Jenkins, Curl, MobaXterm

CG Project#2 Abbott – Test Automation Engineer

Nov-2018 to June 2020

Work location: California, US

Worked for an R&D software product, Nanostim pacemaker which is smaller than a AAA battery that requires no leads, no chest incision, no scar and no permanent lump under the skin where the pacemaker sits. Merlin PCS is a software application used by a clinician to connect to external/implantable devices for establishing or modifying a patient's stimulation prescription. As part of this project, the objective is to perform programmer clinical tests and Encoding/Decoding parameters value.

Responsibilities:

- Understanding the requirements and providing test estimates. Designing, reviewing and executing automation test case for the newly created framework.
- Involved in implementation of **keyword driven and data driven framework**. Experience in creating, modifying and executing test data framework.

- Once after multiple unit test script creation (nature of DDT), performed a batch execution to confirm the integration testing.
- Re-worked on optimizing **python** methods/functions as a result of code coverage meeting.
- Skilled in using core datatypes in Python for manipulating and looping through different user defined objects.
- Created numerous data scripts for performing various CRUD operations.
- Created the **parser code** (.xml to .py) for multiple database files which contains hardware signals with different structures.
- Here python coding is used for converting .xml files. Architected the parser scripts creation and guided 2 team members in creating the function definition to extract the data.
- Contributed in technical document (RTM, test design, report) creation for this class-III medical devices.

Technology: Python, Spyder IDE, Accurev

CG Project#1 HPE – Senior Test Analyst (Manual)

Feb-2013 to Oct-2018

Work location: India and US

- 3-Par High End Storage boxes. Here testing is related to Customer scenario (Customer Focus Testing). Simulating the setup of client's customers and perform the testing. Test cases will be created based on the alert message received from Service Processor. Hardware is with SSD and HDD Combination. In this sustenance testing got the opportunity to work directly with customers.
- Worked on Storage Operation Manager (SOM) which is a HTML page where it can be able to manage heterogeneous storage servers, and this helps in providing UI management. It is client's management tool which is been used to manage all client's BL and DL servers in One view. Mostly it covers Gen-8, Gen-9 platforms and VSA's are part of it.
- Left Hand Networks (LHN), a client's critical storage features for Replication, hot fail-over and snapshot, which solve storage problems for Fast-growing database applications, file sharing, disk-based backup, and Disaster recovery.

Responsibilities:

- Configuring test bed for reliability, availability and scalability testing with different environment.
- Worked on both file and block level of storage testing. Create, maintain and manage automated testing scenarios.
- Strong Linux/Unix system engineering and configuration skills. Compatibility check with Linux OS and VMWare environment. This includes RPM installation and its dependencies. Performed save and restore system state through load from cold (LFC).
- Experience with UI and API automated testing frameworks for storage application.
- System testing in different areas of Storage product (e.g., Configuration, Firmware installation and deployment) being developed by client and suggested changes and enhancements to the product.
- Extensive Knowledge in Business Requirement Analysis and Review, preparation of test plans, test cases and execution & reporting.
- Worked on storage virtualization Using **vCenter** application, **vSphere web client**.
- Collaborate with Development and QA Engineers to build efficient test automation frameworks and tools.
- Experience in using CRUD APIs for performing RESTful commands. Worked on testing client's storage products via iSCSI/FC protocols.
- Experience with various types of testing levels such as Functional, Integration, System, Regression and Acceptance and Performance testing.

Technology: SVN, HP-ALM, RHEL, vSphere and vCentre, FC, iSCSI protocols, GIT, XML/JSON Encoding.