Jebakumar **Govindaswamy**

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Result-Driven Network Test Engineer with 8+ years of experience conducting manual and automation testing on LAN, WLAN and WAN infrastructures. Detail-oriented quality inspector tasked with producing reputable products. Coordinated with developers and subject matter experts to reach accurate findings in testing results.

Experience

2021-DEC - Present

Driver Validation Engineer

Intel, Bengaluru, Karnataka

- Executed LAN Throughput and Latency performance testing for Intel Ethernet 800 and 700 Series Network adapters.
- Created an Automation script using Shell, PowerShell, and python for regression performance testing for Intel Ethernet 800 and 700 Series Network adapters.
- Validated and collected performance data for IPDK P4-OVS on Intel Network adapters.
- Executed manual performance testing for ESX and Hyper V following features SR-IOV, VMDq / VMMQ, Direct PCIe Assignment and VxLAN
- Automated ESX performance testing with Intel Network adapters using Python (sys, os, netmiko, ssh, paramiko, pyVim, pyVmomi), powerCLI, iperf, netperf and bash.
- Participated in comparative benchmark performance testing and collected the perf report for Intel E800 series Network adapter, Intel IPU Adapter, Nvidia BlueField 3 NIC/DPU, CX6, CX7 Adapters
- Learned, Explored and Tested performance of Intel IPU Adapters features like,
  - IPU Host LAN Throughput and Latency Performance
  - IPU Accelerator LAN Throughput and Latency Performance
  - Configuring Maximum number of P4 rules supported by Intel IPU TDI features - Simple Exact Match, Large Exact Match and Flow Counter

2019-APR – 2021-NOV

Test Engineer

SonicWall, Bengaluru, Karnataka

- Designed efficient test topology and bringing up Test environment as per test requirement using multiple firewalls, switches, and access points.
- Written and executed 300+ functional and user-acceptance test cases and test scripts for Sonicwall Switch and Sonicwall Access points products prior to release to production.
- Executed IXIA Veriwave Enterprise Master plan – Conformance, Interoperability, Performance Test plans on SonicWall Access Points. Automated it using TCL scripting.
- Tested Sonicwall GEN6/7 Firewall features like zones, Failover, Load balancing, SFP/SFP+ interfaces, AAA, VPN, High Availability, and policy-based routing.
- Reported over 200+ JIRA and worked with developers to identify root cause of issue and resolve it.
- Engaged internal and external customers during planning and test phases and interfaced with assigned project managers to comply with entry criteria.

2017-DEC - 2019-MAR	**Engineer II**

Qualcomm (under payroll of Zilogic Systems), Chennai, Tamil Nadu

- Configuring and bringing up test bed as per requirement by installing 802.11ad supported WiFi chipsets in OpenWrt, windows, Linux (Ubuntu), Android devices and configuring it in AP/STA mode using hostapd and wpa_supplicant configuration file.
- Executing manual and automated script test cases for functionalities like Wireless Association, Traffic in TCP & UDP, QoS, Roaming, Multiple Virtual Access Point, Stability, Ping Latency and IOT. Automating Test scenarios using Qualcomm Internal automation Application and Bash scripting.
- Reported Bugs and Closely worked with developers to identify root cause and resolve it.

2014-OCT - 2016-NOV	**Member Technical Staff**

HCL Technologies, Chennai, Tamil Nadu

- Analyzing and understanding Functional Requirement Specification Document of product to develop test strategy, test scenarios and test cases.
- Installed and configured windows server roles like Active Directory, Network Policy Service, DHCP, DNS and Certificate Authority for testing.
- Participating in system walk-through and inspection meetings to understand system operation flows and exposure to agile testing methodologies.
- Executed Apple Airprint and Android Mopria automated scripts, concurrent test cases and send successful logs to Apple and Mopria organization to certify product.
- Testing MAC-OS X, iOS and Android compatibility by executing more than 100 manual test cases on each product (Xerox MFP/SFP).
- Manage team with 4 members. Analyses and provides solution to issues faced by team and completed product testing as per schedule.
- Circulate daily and weekly status report to Program Lead and Reporting Manager.

Education

2010-AUG - 2014-JUL	**Bachelor of Technology: Information Technology**

Meenakshi College of Engineering (Anna University) – Chennai, Tamil Nadu, India
Scored 7.23 CGPA

2008 - 2010	**Science and Mathematics**

Sri Vijay Vidyalaya Matric Higher Secondary School – Dharmapuri, Tamil Nadu, India
Scored 86.9%

Certifications / Recognition

2024-APR	Product Assurance and Security Yellow Belt (Software) – Issued by *Intel Corporation*
2022-MAY	Certified in VMWare vSphere ESXI & vCenter Administration – *Udemy*
2021-OCT	Certified in Python Network Programming – *Udemy*
2021-AUG	Received Spot Award - *Sonicwall*
2018-OCT	Recognized as Great Performance - *Qualcomm*
2018-FEB	Recognized as Great Work at AP Program - *Qualcomm*
2017-NOV	Cisco Certified Network Administrator in Routing and Switching (CSC013252976) - *Issued by Cisco*
2015-JUL	Recognized as Star Performer - *HCL Technologies*
2015-MAR	Certified in Software Testing Foundation – ISTQB - *Issued by HCL Technologies*
2014-AUG	Certified in System Administrator IBM AIX Server - *Issued by NSIC*

Skills

Network Protocols	802.1Q (VLAN), MAC, ARP, 802.1X, STP, LAG
	802.3 (Ethernet–Foundational NIC, Intel IPU, NVIDIA DPU), 802.11(Wireless – a/b/g/n/ac)
	IP, ICMP, ROUTING - RIP, OSPF, EIGRP, QOS
	TCP, UDP
	DHCP, DNS, FTP, HTTP
Network Testing Tools	Iperf, Netperf, Neper, HPING, ping, scapy
	IXIA Veriwave, IXIA XGS12 IXLoad, Chariot
Network monitoring Tools	Wireshark, TCPDump, NIC TX/RX analysis
Scripting	Linux bash Shell scripting
	Windows Bat and PowerShell scripting
	Intermediate Level Python Scripting
	Python Modules - OS, SYS, SUBPROCESS, PARAMIKO, SSL, CSV, PYVIM, LOGGING, TIME
Network Security	Firewall and Router Configurations, ACL, NAT, HA – Redundancy and Failover, User Authentication (LDAP, RADIUS), Wireless IDS/IPS
Wireless Security Test Tools	MDK3, AIRMON, AIREPLAY
Operating System	Linux, Windows
Virtualization	ESX VMware, Windows Hyper V, Linux Kernel Namespace
	vSwitch, DVS, SR-IOV, VMDq/VMQ, Direct PCIe Assignment, VxLAN
Testing/Validation/QA/QC	Software Testing Life Cycle (Agile)
	Functional testing, Regression testing, Performance testing, Security testing, Integration testing, Scalability testing, User Acceptance testing
Project/Test Management	JIRA, APTEST, IBM ClearQuest, MS-OFFICE
Problem Solving	Analytical Thinking, Troubleshooting, Identifying problem and its root cause, Log Analysis, Time Management
Team Collaboration	Cross - Functional communication, Goal Alignment, Trust Building, Active listener, Teamwork.