

Jebakumar Govindaswamy

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Results-driven Network Test Engineer with over 9 years of experience in manual and automated testing of LAN, WLAN, and WAN infrastructures. Proven expertise in performance benchmarking, protocol validation, and network security testing. Adept at scripting test automation using Python, Bash, and PowerShell. Strong collaborator with cross-functional teams, consistently delivering high-quality, reliable networking solutions. Committed to continuous improvement and excellence in network product validation.

Experience

2021-DEC Driver Validation Engineer

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Present
Intel, Bengaluru, Karnataka

- Performed LAN throughput and latency performance testing on Intel Ethernet 800 and 700 Series network adapters.
- Developed automation scripts using Shell, PowerShell, and Python for regression performance testing of Intel network adapters.
- Validated and gathered performance metrics for IPDK P4-OVS on Intel network interfaces.
- Conducted manual performance testing for ESXi and Hyper-V environments focusing on SR-IOV, VMDq/VMMQ, Direct PCIe Assignment, and VxLAN features. Automated ESXi performance testing using Python (sys, os, netmiko, ssh, paramiko, pyVim, pyVmomi), PowerCLI, iperf, netperf, and Bash scripting.
- Led comparative benchmark testing and generated performance reports for Intel E800 Series, Broadcom P2100G, AMD Pensando, NVIDIA Mellanox CX5, CX6, and CX7 adapters.
- Researched and tested Intel IPU Adapter, NVIDIA Bluefield Adapter features including:
 - Host LAN throughput and latency performance
 - Accelerator LAN throughput and latency performance
 - Configuring maximum supported P4 rules via TDI (Simple Exact Match, Large Exact Match, and Flow Counter)

2019-APR Test Engineer

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2021-NOV
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	Engineer II
-	<i>Qualcomm (under payroll of Zilogic Systems), Chennai, Tamil Nadu</i>
2019-MAR	<ul style="list-style-type: none"> 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	Member Technical Staff
-	<i>HCL Technologies, Chennai, Tamil Nadu</i>
2016-NOV	<ul style="list-style-type: none"> 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	Bachelor of Technology: Information Technology
-	<i>Meenakshi College of Engineering (Anna University) – Chennai, Tamil Nadu, India</i>
2014-JUL	Scored 7.23 CGPA
2008	Science and Mathematics
-	<i>Sri Vijay Vidyalaya Matric Higher Secondary School – Dharmapuri, Tamil Nadu, India</i>
2010	Scored 86.9%

Certifications / Recognition

2025-FEB	GitHub Copilot Beginner to Pro – AI for Coding & Development - <i>Udemy</i>
2024-AUG	Introduction to DOCA for DPUs / Networking - <i>NVIDIA</i>
2022-MAY	Certified in VMWare vSphere ESXI & vCenter Administration – <i>Udemy</i>
2021-OCT	Certified in Python Network Programming – <i>Udemy</i>
2021-AUG	Received Spot Award - <i>Sonicwall</i>
2018-OCT	Recognized as Great Performance - <i>Qualcomm</i>
2018-FEB	Recognized as Great Work at AP Program - <i>Qualcomm</i>
2017-NOV	Cisco Certified Network Administrator in Routing and Switching (CSC013252976) - <i>Issued by Cisco</i>
2015-JUL	Recognized as Star Performer - <i>HCL Technologies</i>
2015-MAR	Certified in Software Testing Foundation – ISTQB - <i>Issued by HCL Technologies</i>
2014-AUG	Certified in System Administrator IBM AIX Server - <i>Issued by NSIC</i>

Skills

Network Protocols	802.1Q (VLAN), MAC, ARP, 802.1X, STP, LAG 802.3 (Ethernet–regular & Intel Smart IPU NIC), 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.