

# Jebakumar Govindaswamy

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Results-driven Network Test Engineer with over 10+ years of experience in Data Center networking, SOHO/Enterprise Switching & Routing validation, SmartNIC/IPU validation, virtualization performance testing, and automation. Proven expertise in performance benchmarking, ethernet adapters, DPUs, and accelerator offload engines, network protocol validation, and network security testing across enterprise and hyperscale environments. 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.

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## Experience

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### 2021-DEC Driver Validation Engineer

- *Intel, Bengaluru, Karnataka*

Present

- Performed and Led LAN throughput and latency performance validation on Intel Ethernet 700, 700, E2100 Series network adapters across enterprise and virtualization environments.
- Developed automation scripts using Shell, PowerShell, and Python for regression performance testing of Intel network adapters. Reduced Manual validation cycles by ~60% and improved stability of performance benchmarking.
- Conducted manual performance testing for VMware ESXi, Linux KVM and Microsoft Hyper-V validating SR-IOV, VMDq/VMMQ, Direct PCIe Assignment, and VxLAN features.
- 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 validated Intel IPU Adapter, NVIDIA Bluefield Adapter features including:
  - Host and Accelerator - LAN throughput and latency performance
  - Captured Time based performance as configuring maximum supported P4 rules in Intel IPU adapter via TDI (Simple Exact Match, Large Exact Match, and Flow Counter)
- Validated Intel IPU Lookaside Crypto Engine Performance, Covering:
  - Crypto, Compression & Decompression, Service Chain combinations
  - DMA Performance across data paths (Host < -- > Accelerator)

### 2019-APR Test Engineer

- *SonicWall, Bengaluru, Karnataka*

2021-NOV

- 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**

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

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**2019-MAR**

- 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**

*HCL Technologies, Chennai, Tamil Nadu*

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**2016-NOV**

- 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.

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## Education

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

*Meenakshi College of Engineering (Anna University) – Chennai, Tamil Nadu, India*

Scored 7.23 CGPA

**2014-JUL**

**2008 Science and Mathematics**

*Sri Vijay Vidyalyaya Matric Higher Secondary School – Dharmapuri, Tamil Nadu, India*

Scored 86.9%

**2010**

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## Certifications / Recognition

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- 2025-FEB GitHub Copilot Beginner to Pro – AI for Coding & Development - *Udemy*
- 2024-AUG Introduction to DOCA for DPUs / Networking - *NVIDIA*
- 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*

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## Skills

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Data center & Networking	Intel IPU, NVIDIA BlueField, Crypto & Compression Offload, DMA Performance
Network Protocols	Ethernet (802.3), 802.1Q (VLAN), MAC, ARP, 802.1X, STP, LAG Wireless (802.11– 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, IXIA Aers One, Chariot
Network monitoring Tools	Wireshark, TCPDump, NIC TX/RX analysis
Automation & Scripting	Linux bash Shell scripting Windows Batch and PowerShell 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
Virtualization & Platforms	Linux, Windows 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, Confluence,
Professional Strengths	Analytical Thinking, Troubleshooting, Identifying problem and its root cause, Log Analysis, Time Management Cross - Functional communication, Goal Alignment, Trust Building, Active listener, Teamwork.