**SHAVESH BABU YARRA**

*Farmington Hills, MI*

**(248) 949-6497 || shaveshb643@gmail.com**

# SUMMARY

* In-depth experience designing, implementing, managing, and supporting LAN/WAN based and data center work environments.
* Administered Cisco DNA Center to orchestrate network management tasks, including configuration, monitoring, and troubleshooting of devices across the enterprise.
* Routing protocols – EIGRP, OSPF, BGP
* Experience Optimizing data plane performance through techniques like traffic engineering, load balancing, and caching.
* LAN Switching – VLAN, VTP, STP, EtherChannel, CoS
* WAN – MPLS, MPLS/VPN, MP-BGP
* Collaborated with system architects to design and implement software-defined access (SD-Access) solutions for efficient network segmentation and policy enforcement.
* TCP/IP protocol suite, Quality of Service
* Application protocols - HTTP, HTTPS, FTP, SMTP, SNMP, SSL etc.
* Experience with load balancing with F5 LTMs.
* Experience with IOS, NXOS, EOS, and Junos operating system.
* Network Security - IPSec VPN, AAA Architecture, TACACS+, RADIUS, firewalls
* Data Center Architecture – Network, Server, Storage
* Experience with enterprise and data center infrastructure, operation and support.

* Experience with cloud architecture such as AWS, Azure.
* Experience with SDN technology such as ACI and SD-WAN.

# TECHNICAL EXPERTISE

* Cisco Routers - ISR 4000 series, ASR 1000 series,3800 ,3900 ,7600 series.
* Cisco Switches - 3650X, 3750X, 4948E, 4506, 6509, 9300.
* Cisco Nexus NXOS - 2K’s, 5K’s, 7K’s, 9K’s.
* Cisco Catalyst 6500 and other Catalyst Series switches • Cisco Nexus ACI – 9508 modules, 9300 series, APIC C220M4.
* Juniper EX Series – 2300, 3400, 4300.
* Juniper MX Series – MX5, MX10, MX40, MX80.
* Juniper QFX Series – 5100, 5200, 10002.
* Arista Fabric – 7130E, 7150S
* Data Plane
* Control Plane
* Firewalls-Cisco ASA Firewall, Juniper SSL VPN
* Brocade switches – M8428K.
* Riverbed WAN Acceleration - CMC, EX560, EX760, 5050, 2050, 1050.
* Load balancers – Symbol, F5 BigIP LTM/GTM/Juniper or Cisco ACE/GSS
* Routing Protocol – BGP, OSPF and EIGRP.
* Ticketing System – Remedy and Service-Now.
* Network Management – HPOV, NNM, SolarWinds, ORION etc. **TRAINING**

F5 LTM/GTM

* Amazon Web Service (AWS)
* Palo Alto
* VMware NSX
* ACI
* SD-WAN
* Meraki Wireless

# CERTIFICATION

* Cisco Certified Network Professional (CCNP)
* Juniper Networks Certified Internet Associate (JNCIA)
* Juniper Networks Certified Internet Professional (JNCIP – Enterprise, Data Center and Service Provider)
* Palo Alto Networks Certified Network Security Administrator (PCNSA)

# PROFESSIONAL EXPERIENCE

**Client : FedEx Services || 11/2020 – Present**

**Role : Sr. Network Engineer** **Responsibilities:**

* Designed and Implemented plan for migration from existing Catalyst switches to Nexus and configured NX-OS Virtual Port Channels, Nexus port profiles, Nexus VPC peer links on Nexus 5k and 7k.
* Maintained and provided Level 2 and Level 3 technical supports for all network related issues.
* Tuned BGP internal and external peers with manipulation of attributes such as metric, origin and local preferences.
* Familiarity with data plane virtualization using technologies like VTEPs, VXLAN, and NVGRE, - Understanding of data plane security threats and mitigation techniques, including ACLs, firewalls, and intrusion detection.
* Proven ability to troubleshoot complex control plane issues using tools like Wireshark and debug logs.
* Supporting EIGRP and BGP based on the network by resolving level 2 & 3 problems of internal teams & external customers of all locations.
* Proficient in configuring and optimizing data forwarding paths for high-performance networks.
* Proficient in designing and implementing control plane architectures for scalable and efficient networks.
* Designed, deployed, and managed Cisco ACI fabric infrastructure to provide a scalable and resilient network for data center operations.
* Proven ability to troubleshoot data plane issues using tools like Wireshark, tcpdump, and debug logs, Experienced in optimizing data plane performance through techniques like traffic engineering, load balancing, and caching.
* Knowledgeable in SDN controllers and control plane protocols such as OpenFlow and P4, - Familiarity with control plane security best practices, including authentication, authorization, and encryption.
* Implemented policy-driven automation using Cisco APIC (Application Policy Infrastructure Controller) to streamline network provisioning and enhance security.
* Worked closely with cross-functional teams to develop and implement network segmentation strategies based on business requirements and security best practices.
* Conducted regular audits and assessments of the ACI fabric to ensure compliance with industry standards and internal policies.
* Provided troubleshooting and resolution of complex network issues, including performance optimization and fault isolation.
* Administered Cisco DNA Center to orchestrate network management tasks, including configuration, monitoring, and troubleshooting of devices across the enterprise.
* Collaborated with system architects to design and implement software-defined access (SD-Access) solutions for efficient network segmentation and policy enforcement.

Deploying and decommission of VLANs on core ASR 9K, Nexus 7K, 5K and its downstream devices.

Experience in the setup of Cisco Virtual Switching System (VSS), ACL's, OSPF, EIGRP, and tunnel installations.

* Proficiency in configuration of VRF, VLAN setup on various Cisco Routers and Switches.
* Implementing and troubleshooting complex layer 2 technologies such as VLAN, Trunks, VTP, Fabricpath, etherchannel, STP, RSTP, MST & port security along with trouble- shooting of inter-VLAN routing and VLAN trunking using 802.1Q.
* Access control server configuration for RADIUS & TACACS+ and ISE.
* Implemented redundancy with HSRP, VRRP, GLBP, Ether channel technology (LACP, PAgP) etc.
* Implemented traffic filters using Standard and Extended access-lists, Distribute-Lists, Route Maps and route manipulation using Offset-list.
* Configured Palo Alto Firewalls with multiple zones based on traffic segregation requirements including DMZ and perimeter.
* Configured NAT such as Static, Source (Hide) as well as Destination NAT policies as required on Palo Alto firewall.
* Conducted security policy/rule review to identify and remove rules that are not needed to reduce PAN firewall policy lookup.
* Configure stateful Failover of Palo Alto firewalls (Active/Active & Active/Standby) for HA.
* Built site-to-site IPsec VPNs Tunnels on Cisco ASA Firewall to facilitate adding new business partners to new and existing infrastructure.
* Troubleshooting issues related to Anyconnect VPN on ASA Firewall for the Internal users and make sure it is available 24/7.
* Implementing and troubleshooting (on-call) IPsec VPNs for various business lines and making sure everything is in place. Implementing IPsec and GRE tunnels in VPN technology. Designed, configured, implemented site-site VPN on Cisco ASA 5500 firewall.
* Integrating Configuring Cisco ASA Firewalls with ISE to the Posture policy compliance perform CoA for remote VPN IPsec, SSL AnyConnect users.
* Monitored and analyzed Intrusion Detection Systems (IDS) & Intrusion Prevention System (IPS) to identify security issues for remediation.
* Working on to set up OSPF dynamic routing on Cisco ASA Firewalls by using and following their current network structure.
* Worked over convert Checkpoint VPN rules over to the Cisco ASA solution and worked on RSA secure IDs to providing VPN Token to Company USERS, Migration with Cisco ASA VPN.
* Experience in configuring and troubleshooting BIG-IP F5 Load balancer LTM creating virtual servers, nodes, pools and iRules on BIG-IP F5 in LTM module.
* Configuring virtual servers on F5 Load balancers for the servers to be accessed by externa users and Load balance the traffic with Round Robin Mechanism.
* Configured and deployed F5 LTM with Inbound NAT configurations and outbound NAT server to IP mapping.
* Installation of the SSL Certificates in the F5 BIGIP, after the creation of the CSR. Then installed the SSL Certificate in the VIP (Virtual Server) in the F5 Big IP.
* Managed the IP address space using subnets and variable length subnet masks (VLSM) and Monitored the operability and reliability of the network.
* Experience in working with Cisco wireless controllers like 5508, 5520 and Wireless access points.

Configured and performed software upgrades on Cisco Wireless LAN Controllers 5508 for Wireless Network Access Control integration with Cisco ISE.

Hands on experience in working with monitoring tools like SolarWinds, Nagios.

* Experience in Configuring the DNS and DHCP for servers using InfoBlox.

**Client : AT&T, Dallas, TX || 10/2018 to 06/2020 Role : Consultant Sr. Network Engineer Responsibilities:**

* Configured OSPF protocols on Cisco L3 switches for LAN connectivity.
* Configure BGP for WAN connectivity, traffic filtering and engineering.
* Configure networking equipment for customer deployments and provide remote technical guidance and support during site turn-ups.
* Designed, documented, and implemented code upgrade on access, distribution and core network devices which included Cisco Catalyst Switches (4500 & 6500 series), Nexus N5K & N7K, Arista devices.
* Configuration and implementation of Arista 7504 & 7280 in Spine-leaf architecture.
* Resolve day-to-day network operations priority tickets through ticketing tool. Communicate and assist the customer until the ticket/issue is resolved.
* Assist in deployment of Cisco wireless meraki solution, SD-WAN and ACI.
* Maintaining and provisioning cloud network such as Equinix, AWS, Oracle Bare Metal and VMware cloud.

**Client : American International Group, Fort Worth, TX || 05/2017 to 9/2018**

**Role : Sr. Data Center Network Engineer**

# Responsibilities

* Provide network design diagrams and documentation, installation, and configuration of network devices as well as fourth tier operational support.
* Lead F5 migration effort from Cisco ACE to F5 LTMs.
* Configuration of Cisco Catalyst, Nexus Switches, Routers, Arista Switches and F5 Load Balancer and troubleshoot network issues.
* Involved in data center migration from three layered network architectures to Spine Leaf Architecture on Cisco Hardware. Configured VTEPS, VXLAN, and BGP for routing in Spine Leaf Architecture.
* Performed switching technology administration including VLANs, inter-VLAN Routing, Trunking, STP, RSTP and Port Aggregation on Cisco and Arista devices

**Client : DXC Technologies Pvt Ltd/HCFA, Chennai INDIA || 12/2015 to 08/2016**

**Role : Network Engineer**

# Responsibilities

* Maintains routine data network hardware and system; investigates, resolve and/or escalates network and hardware matters of significance; researches, analyzes and isolate errors; assist in assessing and updating older networks as needed and in accordance with specified plans.

Maintaining and supporting local and wide-area network (LAN/WAN).

Coordinates installation of routers, switches, Riverbed and other network devices and effectively communicates changes to appropriate parties.

* Assists in designing and implement and maintains various networks such as LAN, WAN and Prepare data network diagram to document and assists in communicating current operation status of networks.
* Review rules for firewall changes and other critical infrastructure components intended to secure the enterprise. Provide 24 by 7 on-call operational support for the WAN/LAN IP network for Motorola and Westinghouse.

**Bharathi Airtel Ltd, Chennai INDIA || 07/2014 to 12/2015**

**Role : Network Engineer**

# Responsibilities

* Develop router configuration statement, loopback, trunk assignment and assist in troubleshooting network problem.
* Create, review and update engineering documentation and method of procedures (MOP) to provide detailed guideline to GDNM/GDNO for activation of new network capabilities.
* Participate with vendor technical management activities involving interaction with Juniper and Cisco
* Support Method of Procedure (MOP) development for Private IP (PIP) plus legacy FR and ATM network including lab testing of MOPs.
* Process Individual Case Basis (ICB) requests for non-standard feature/functionality on the PIP, FR and ATM network.
* Complete the ATM network Firewall Access Control Lists enhancements required to improve access and security for network elements.
* Review and approve multicast, OSPF, BGP timer and route increase based on engineering standard.
* Run utilization reports on a weekly and monthly basis to help manage the level of capacity on the network.
* Time Warner Traffic migration and the integration of new customer accounts into VoIP network.
* Work with VoIP administrator to learn system processes and gain proficiency in order entry and call flow processes.

# EDUCATION

• Masters in Computer Science : University of North Carolina at Charlotte