**R.** **Pavan Kumar**

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**Professional Summary:**

* Having 8 years of experience with a professional master's degree from the New York Institute of Technology.
* Demonstrated history in network configuration, administration, and maintenance with a focus on customer success.
* Strong technical expertise in network and network security, particularly Cisco design implementation and operational support (LAN/WAN/Data Center).
* Proficient in managing Palo Alto perimeter security and DMZ environments.
* Skilled in designing and maintaining robust datacenter fabric connections.
* Provides round-the-clock operational support for Cisco ACI and DELL Leaf and Spine Architecture.
* Offers end-to-end network support on L2 and L3 switches with 24/7 on-call rotation.
* Responsible for managing Cisco ASA, Palo Alto, and Checkpoint firewalls.
* Designs and establishes efficient Cisco wireless environments with 5520WLC and 3702 Aironet APs.
* Experienced in network design and architecture for large enterprise datacenters.
* Proficient in LAN switching technologies.
* Skilled in Multiprotocol Label Switching (MPLS) and MPLS VPN.
* Experienced in IPSEC and RADIUS.
* Knowledgeable in TACACS+ and the Internet Protocol Suite (TCP/IP).
* Familiar with Amazon Web Services (AWS) networking.
* Proficient in Open Shortest Path First (OSPF) and Border Gateway Protocol (BGP).
* Uses SolarWinds (NPM and IPAM) for network monitoring and management.
* Manages vulnerability threats with Trend Micron Tipping Point and Palo Alto.
* Skilled in troubleshooting network issues using Wireshark and other tools.
* Experience in optimizing MPLS WAN connections.

**Technical Skills:**

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| **Network Design and Architecture** | Cisco Prime, SolarWinds, Cisco ACI, DELL Leaf and Spine Architecture, VXLAN, SONIC |
| **LAN Switching** | Cisco Catalyst, Cisco Nexus, Spanning Tree Protocol (STP), EtherChannel, Virtual Port Channel (vPC) |
| **Multiprotocol Label Switching (MPLS)** | Cisco IOS, Cisco ASR 1001X, MPLS, MPLS VPN |
| **IPSEC** | Cisco ASA, Palo Alto Firewalls, IPsec, SSL VPN, DMVPN |
| **RADIUS** | Cisco ACS, Free RADIUS, RADIUS protocol for authentication |
| **TACACS+** | Cisco Secure ACS, TACACS+ servers, TACACS+ protocol for access control |
| **Internet Protocol Suite (TCP/IP)** | Wireshark, tcpdump, IPv4, IPv6, TCP, UDP, ICMP |
| **Amazon Web Services (AWS)** | AWS Management Console, AWS CLI, AWS VPC, AWS Direct Connect, AWS Transit Gateway |
| **Open Shortest Path First (OSPF)** | Cisco IOS, Cisco NX-OS, OSPF routing protocol |
| **Border Gateway Protocol (BGP)** | Cisco IOS, Cisco NX-OS, BGP, eBGP, iBGP, Route Reflectors, BGP attributes |
| **Additional Tools and Technologies** | Palo Alto PAN-OS, Checkpoint Smart Console, Stateful Inspection, Threat Prevention, IPS/IDS, Cisco Wireless LAN Controller (WLC), Meraki Dashboard, Cisco Aironet APs, Meraki APs, Wi-Fi 6, SolarWinds (NPM, IPAM), Cisco Prime, SNMP, NetFlow, Python, Ansible, ORION API for SolarWinds, network automation scripts, Wireshark, SolarWinds, Cisco TAC, Packet capture and analysis, network diagnostics, Infoblox, Bluecat, DNS, DHCP, IPAM |

**License and Certifications:**

* **Cisco Certified Network Associate** - Cisco Issued Mar 2017 - Expires Mar 2020 -428014169503COWJ

**Education:**

* **Jawaharlal Nehru Technological University -** Bachelor's degree, 2010 – 2014

**Professional Experience:**

**Client: Dell Technologies**

**Roll: Sr. Network Engineer Feb 2022 – Present**

**Project Description:**

As a Senior Network Engineer at DELL Technologies, I specialize in network architecture, design, and support for WAN, Data Center, Backbone, and Campus networks, focusing on IPV4/IPV6 configurations. I provide Subject Matter Expertise and capacity planning, ensuring robust solutions and steady-state operations. My work includes L3 network designing with OSPF and BGP, Leaf and Spine with VXLAN using SONIC, and the migration of DHCP and DNS from Bluecat to Infoblox. I also handle network monitoring with Solarwinds, vulnerability threat management with Tipping Point and Palo Alto, and MPLS WAN optimization, along with troubleshooting using Wireshark.

**Roles & Responsibilities:**

* Network architecture, design and support for WAN, Data center, Backbone and Campus networks for a large Research and development production LABS with IPV4/IPv6
* Providing Subject Matter Expertise on multiple technologies. Solution adviser on projects as well as steady-state operations. Capacity planning with network design and solution
* Documenting for method of procedure" documents for implementations. Working with the architecture group on network security standards to improve the enterprise security and reliable network.
* L3 Network Designing (OSPF and BGP), Leaf and Spine with VXLAN using SONIC
* DHCP and DNS Migrations from Bluecat to Infoblox
* Network Monitoring with Solarwinds(NPM and IPAM)
* Vulnerability threat management – Tipping Point and Palo Alto’s
* troubleshooting with Wireshark
* MPLS WAN Optimization

**Environment:** Switches – DELL Z Series, S Series switches with OS9/OS10/SONIC**,** Routers – Cisco ASR 1001X for WAN Connections**,** Firewall – Palo Alto**,** Inspection – Trend Micron Tipping point (8400TX / 9200TXE) with vision one and DDI.

**Client: T-Mobile**

**Role: Sr. Network Engineer Sep 2021 – Feb 2022**

**Project Description:**

In my role as a Senior Network Engineer at T-Mobile, I lead planning, design, and upgrades of network and security infrastructures, including collaboration with vendors for 5G network architecture. I manage day-to-day network operations, troubleshoot technical issues, and ensure LAN, Wireless, and WAN functionality. My responsibilities include evaluating and implementing new technologies to enhance productivity, documenting network problems and solutions, and deploying FEX and fabric path solutions in data centers. I also automate network monitoring using Python with SolarWinds' ORION API, strengthen network security with Checkpoint firewalls, and manage DHCP, DNS, and IPAM with SolarWinds and Infoblox. Additionally, I optimize SD-WAN solutions using Cisco DNA for data centers and Meraki for stores.

**Roles & Responsibilities:**

* Planning, designing, and upgrading network and Network Security.
* leading the project by collaborating with vendors for designing and architecture of the 5G Network and driving
* Managing network operations and troubleshooting day to day operational & technical issues. Install, configure, and maintain network services, equipment, and devices. LAN and Wireless Network support. WAN
* Evaluating and recommending new technologies for improving business productivity. Increasing workflow efficiency by documenting all network related problems and resolutions.
* Designing and implementing FEX and fabric path for the data center
* python automation for SolarWinds with ORION API for monitoring
* Enhancing network security an threat prevention – checkpoint firewalls
* DHCP, DNS and IPAM Management with SolarWinds and Infoblox
* SD-WAN Optimization using Cisco DNA for Data center and meraki for stores

**Environment:** Switches – Cisco Catalyst, Nexus (9K, 5K, 3K), Routers – Cisco ASR 1001X, 9k Series, Firewall – Checkpoint, Palo Alto.

**Client: CHI – Common spirit health**

**Role: Sr. Network Engineer Feb 2018 – Sep 2021**

**Project Description:**

In my role as a Senior Network Engineer at CHI Memorial Hospital, I successfully collaborated with architects to design a stable network for EPIC EMR integration. I led a LAN remediation project across CHI facilities, transitioning from EIGRP to OSPF and BGP for enhanced HUB and Spoke architecture. Responsibilities included assessing business needs, planning network upgrades, and troubleshooting architecture to optimize system performance. I managed configuration and maintenance of networking devices across headquarters, branch offices, and colocation facilities, implementing Cisco ISR and ASR routers, and Nexus switches with VPC/VDC/FEX/Fabric path configurations.

**Roles & Responsibilities:**

* Worked along with Architects in designing stable Network for EPIC EMR integration at CHI Memorial Hospital, LAN Remediation project for replacing EIGRP with OSPF and BGP for new HUB and Spoke architecture for entire CHI Facilities in Chattanooga this includes entire hardware refresh in Data center Network Operations.
* Assessing business and applications requirements for corporate data and voice networks
* Planning, designing, and upgrading network and Network Security
* Troubleshooting network architecture and making recommendations for system findings and enhancements
* Making recommendations for leveraging network installations and reducing operational costs
* Responsible for configuring and maintaining all networking devices at headquarters, branch offices and colocation facilities
* Configuring and staging Cisco ISR 4300 & ASR 1K router (VRRP & HSRP), 6880, 3850- X Stack switches, Nexus 2K, 7k, 9k switches
* Racking, Stacking, configuring, Nexus 9k,5K and 2K and 7K with VPC/VDC/FEX/Fabric path
* Implementing and troubleshooting L3 protocols: OSPF routing to increase the efficiency and decommissioning the EIGRP and redistributing it into BGP (EBGP & IBGP) using prefix-Lists and attributes
* Monitored and enhanced the performance and security of all network equipment, including wireless networks.
* Responsible for providing in-depth troubleshooting and resolution of problems while adhering to strict customer SLA times.
* Extending end to end network support on L2 and L3 switches
* Responsible for Cisco ASA & Palo Alto, checkpoint Firewalls environment.
* Working on establishing and designing efficient and robust Cisco Wireless environment with 5520WLC and 3702 Aironet AP

**Environment:** Switches – Cisco Catalyst, Nexus, **Routers – Cisco ASR 1001X,** Firewall – Palo Alto, **Wireless – Cisco 5500, 9800 series.**

**Client: Toys"R"Us**

**Role: Sr. Network Engineer(contract) Sep 2016 - Feb 2018**

**Project Description:**

In my role as a Network Engineer, I successfully led the migration of 850 stores from a traditional Cisco environment to a Meraki SD-WAN setup, enhancing network efficiency and management. I have extensive experience in data centers, working with a variety of routers and switches including Cisco ASR, ISR, and Nexus series. My expertise includes configuring and troubleshooting routing protocols like OSPF, BGP, and EIGRP, optimizing enterprise networks with advanced IP addressing techniques, and implementing secure VPN solutions. I've also managed Cisco Meraki wireless environments and implemented robust SD-WAN solutions for secure connectivity between stores and data centers.

**Roles & Responsibilities:**

* Migrated all 850 stores from traditional Cisco environment to Meraki SD-WAN environment.
* Experienced working in Data Center with 1800, 2800, 2500, 2600, 2800, 3600, 3800, 3900, 7204, 7606, ASR 9K, series Routers
* Hands-on experience with WAN (ATM/Frame Relay), Routers, Switches, TCP/IP, and IP addressing
* Involved in the configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, HSRP, BGP v4 on Cisco Router
* Configured and resolved various OSPF issues in an OSPF multi area environment on cisco routers
* Engineered BGP routing attributes (Route-map, AS-path, MED, local preference) to load balance between multiple links
* Implementation and optimization of Enterprise Networks, and Next Generation Data Centers and IP addressing techniques (NAT/PAT), DHCP, DNS, FTP, TFTP.
* Advanced WAN and IP support including point-to-point, MPLS, PPP.
* Advanced client VPN knowledge including IPSec/SSL, DMVPN encryption/hash mechanisms and multi-factor authentication and managing ACLs in Cisco ASA firewalls
* Creating and maintaining change tickets and change management process and enabling QOS in cisco routers
* Implementing and managing Cisco Meraki wireless Environment (MX64 and MX600) for 800 retails Stores along with traditional Cisco environment (Cisco 1921 and Catalyst Switches)
* Implementing Site to Site VPN connectivity with New SD-WAN Between Store and data center for
* Meraki security appliances
* Implementing traffic shaping, Qos and content filtering in Meraki Environment & Troubleshooting MPLS Connectivity Between Stores and Data centers.

**Environment:** Switches – Cisco Catalyst, Nexus, and Meraki, Routers – Cisco ASR 1001, ISR 4331, Firewall – Palo Alto, Wireless – Meraki Wireless

**Client: Aplomb Technologies Inc**

**Role: Network Engineer Feb 2016 - Aug 2016**

**Project Description:**

In my role as a Network Engineer, I am proficient in installing, upgrading, and troubleshooting both Windows and macOS, as well as supporting authorized desktop applications and hardware peripherals. I have extensive experience in TCP/IP and LAN configuration, including troubleshooting network cabling issues. I specialize in creating virtual firewalls and DMZ zones, implementing ACLs on ASA firewalls for VPN tunnels, and configuring core routing protocols like BGP, EIGRP, and OSPF with ACL implementations. I maintain and troubleshoot L2 and L3 switching technologies such as STP, PVST, and Ether Channels, utilizing Wireshark for packet capture and analysis. I monitor network environments using Cisco Prime and SolarWinds, ensuring optimal performance and security. Implementing advanced network security features like IPS/IDS for threat protection is also a key aspect of my role. Additionally, I manage site-to-site VPN configurations and traffic shaping rules on Cisco Meraki, and I troubleshoot issues related to wireless APs in Cisco Meraki environments.

**Roles & Responsibilities:**

* Install, upgrade, support and troubleshoot Windows OS, MAC OS, authorized desktop applications, hardware, and peripheral equipment.
* Internet (TCP/IP) & LAN configuration, troubleshooting Network Cabling
* Creating Virtual Firewalls and DMZ zones
* Implementing ACLS in the ASA firewalls and applying them to the VPN tunnels
* Configuring BGP (EBGP & IBGP), and EIGRP, OSPF for core routing by implementing ACL's
* Maintaining and troubleshooting L2 and L3 switching technologies (STP, PVST, PVST+) Ether Channels and port aggregation protocols with Wireshark Packet capture Tools
* Monitoring the Network Environment using Cisco Prime and Solar winds
* Implementing Network Security Features like IPS/IDS for advance threat Protection
* Creating the Site-to-Site VPN and Traffic shaping rules on cisco Meraki
* Troubleshooting the Wireless APs on Cisco Merak

**Environment:** Windows OS, macOS, TCP/IP, LAN ACLs for VPN tunnels, configuring BGP (EBGP & IBGP), EIGRP, and OSPF with ACLs, L2 and L3, TP, PVST, PVST+, Ether Channels, Network Monitoring, Cisco Prime and SolarWinds, Network Security, VPN Configuration, Wireless Networking