

Sai Kumar

Network Engineer

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SUMMARY:

Network Engineer with 4+ years of experience specializing in routing and switching, network security, cloud networking, and automation, leveraging technologies such as BGP, OSPF, VLANs, Firewalls, AWS VPC, and Python-based automation. Achieved up to 40% improvement in deployment efficiency and reduction in network latency through optimized configurations and automation. Delivers available, secure, and scalable network solutions across banking, industrial, and e-commerce environments.

TECHNICAL SKILLS:

- **Programming Languages:** Python, Bash, PowerShell
- **Networking Protocols:** TCP/IP, UDP, BGP, OSPF, EIGRP, MPLS
- **Routing & Switching:** VLANs, STP, VTP, Inter-VLAN Routing, Layer Switching
- **Network Security & Devices:** Firewalls, VPN, ACLs, IDS/IPS, NAT, Cisco Routers, Switches, Juniper Devices, Load Balancers
- **Wireless Networking:** WLAN, Access Points, RF Optimization, WPA
- **Monitoring Tools:** Wireshark, SolarWinds, Nagios, SNMP, NetFlow
- **Cloud Networking:** AWS VPC, Azure Virtual Networks, Hybrid Connectivity
- **Automation & Tools:** Ansible, Netmiko, Paramiko
- **Operating Systems:** Linux, Windows Server
- **Core Networking Services:** DNS, DHCP, IP Addressing, Subnetting, NTP

WORK EXPERIENCE:

U.S. Bancorp

April 2025 – Present

Network Engineer

- Architected high-availability network infrastructure using TCP/IP, and VLAN segmentation for core banking and digital transaction systems, achieving uptime across mission-critical environments.
- Optimized routing and switching across Cisco and Juniper devices leveraging STP, Inter-VLAN Routing, and Layer Switching, supporting endpoints with secure and reliable connectivity.
- Diagnosed and remediated latency and packet loss issues using Wireshark, SNMP, and NetFlow, and enforced QoS policies, reducing network latency by 35%.
- Orchestrated secure network architecture by implementing Firewalls, VPN, ACLs, IDS/IPS, and NAT, ensuring compliance with standards in a 10+ member cross-functional environment.
- Automated network provisioning and configuration using Python, Ansible, Netmiko, and Paramiko across AWS VPC and hybrid cloud environments, improving deployment efficiency by 40%.

Emerson Electric

August 2024 - March 2025

Network Engineer

- Deployed scalable network solutions for industrial automation environments, increasing system reliability by 28% across production facilities.
- Administered enterprise and plant network operations using Juniper devices, supporting secure data flow across geographically distributed sites.
- Mitigated network downtime caused by broadcast storms by implementing STP enhancements and VLAN segmentation, reducing incidents by 32%.
- Directed coordination between IT and operations teams within a 10+ member setup, ensuring seamless integration of network upgrades with minimal production impact.

- Streamlined network monitoring and alerting using SolarWinds, Nagios, and NetFlow, improving issue detection efficiency by 38%.

Cognizant

March 2021- June 2023

Networking Engineer

- Delivered network solutions for client environments by optimizing connectivity across enterprise systems, improving service availability by 27%.
- Administered network infrastructure across client accounts using TCP/IP, VLANs, and routing protocols, ensuring stable and secure operations in managed service environments.
- Eliminated recurring connectivity issues by redesigning IP addressing schemes and subnetting strategies, reducing incident frequency by 30%.
- Hardened network security by configuring ACLs, NAT, and VPN tunnels, protecting data transmission across client environments and reducing unauthorized access risks.
- Implemented network automation and configuration tasks using Python, Ansible, and Linux-based systems, improving task efficiency by 35%.

Flipkart

NOV 2018 - JUNE 2019

Network Engineer

- Optimized network performance across e-commerce platforms and warehouse systems, improving application response time by 25% during peak traffic events.
- Maintained large-scale network infrastructure using TCP/IP, VLANs, and routing protocols, ensuring seamless connectivity across data centers and fulfillment hubs.
- Resolved bandwidth congestion issues during high-traffic sales by implementing traffic shaping and load balancing, increasing throughput by 30%.
- Led network upgrade initiatives across multiple warehouse locations, coordinating with a 6+ member team, completing deployments with zero downtime.
- Deployed monitoring and logging solutions using Wireshark, SNMP, and Nagios, improving network visibility and incident response efficiency by 35%.

EDUCATION:

Master of Science in Technology Management

- Lindsey Wilson College
- August 2023- May 2025