

GOWTHAM SAI YANAMADALA

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Professional Summary

Network Engineer with 4+ years of experience designing, implementing, securing, and optimizing enterprise network infrastructure across hybrid cloud and on-premises environments. Experienced in routing, switching, SD-WAN, cloud networking, firewall administration, network automation, and enterprise infrastructure supporting large-scale business operations. Hands-on expertise with Cisco, Juniper, Palo Alto, Fortinet, AWS, Azure, Python, Ansible, Terraform, SolarWinds, Splunk, and Wireshark for improving network availability, security, scalability, and operational efficiency. Strong background supporting enterprise WAN/LAN environments, data center networking, cloud connectivity, VPN technologies, and Zero Trust security architectures. Proven ability to automate network operations, reduce operational overhead, and deliver highly available, secure, and resilient network solutions aligned with business objectives.

Technical Skills

Networking: TCP/IP, IPv4, IPv6, Routing & Switching, BGP, OSPF, EIGRP, MPLS, IS-IS, VLANs, STP, RSTP, VTP, HSRP, VRRP, EtherChannel, QoS, WAN, LAN, WLAN, SD-WAN, Cisco ACI, VXLAN, EVPN, NAT, PAT, DNS, DHCP, ICMP, SNMP, NetFlow, Subnetting

Network Security: Palo Alto Firewalls, Fortinet FortiGate, Cisco ASA, Check Point, Cisco ISE, Cisco Umbrella, IPsec VPN, SSL VPN, ACLs, IDS/IPS, TACACS+, RADIUS, MFA, Zero Trust Architecture, Network Segmentation, Security Policies

Cloud Networking: AWS (VPC, EC2, Transit Gateway, Route Tables, CloudWatch, VPN Gateway, Direct Connect, Load Balancer, Security Groups), Microsoft Azure (Virtual Network, VPN Gateway, ExpressRoute, NSG), Hybrid Cloud Connectivity

Automation: Python, Ansible, Terraform, REST APIs, Git, GitHub, YAML, JSON, Bash, Infrastructure as Code (IaC)

Monitoring: SolarWinds, Splunk, Wireshark, Cisco DNA Center, Cisco Meraki Dashboard, Nagios, Zabbix, PRTG, NetSpot, Ekahau Pro

ITSM & Collaboration: ServiceNow, Jira, Confluence, Slack, Microsoft Teams, Trello, Asana, Notion

Systems: Linux, UNIX, Windows Server, Active Directory, VMware vSphere, Hyper-V, DNS, DHCP

Professional Experience

Cisco Systems

Dec 2024 – Present

Network Engineer

- Engineered and supported enterprise network infrastructure consisting of more than 1,500 routers, switches, firewalls, wireless controllers, and cloud-connected devices, maintaining 99.99% network availability across campus, branch, data center, and hybrid cloud environments.
- Configured and optimized BGP, OSPF, MPLS, VLANs, STP, HSRP, and QoS policies across Cisco routing and switching platforms, improving routing convergence by 35% while reducing network latency for business-critical applications.
- Designed and deployed Cisco SD-WAN solutions integrating branch offices with AWS and Microsoft Azure environments, reducing WAN operational costs by 30% while improving application performance and network resiliency.
- Automated network provisioning, configuration management, compliance validation, and device onboarding using Python, Ansible, Terraform, and REST APIs, reducing manual configuration effort by 45% and accelerating deployment cycles.
- Implemented secure hybrid cloud networking using AWS VPC, Azure Virtual Network, VPN Gateway, IPsec VPN, Direct Connect, and ExpressRoute, improving application availability by 25% and strengthening cloud connectivity.
- Strengthened enterprise security by deploying Palo Alto firewall policies, ACLs, TACACS+, RADIUS authentication, IDS/IPS, and Zero Trust network segmentation, reducing security incidents by 40% while ensuring compliance with enterprise security standards.
- Monitored and optimized enterprise network performance using SolarWinds, Splunk, Wireshark, NetFlow, SNMP, and Cisco DNA Center, proactively identifying bottlenecks and reducing Mean Time to Resolution (MTTR) by 38%.
- Collaborated with cloud engineering, cybersecurity, DevOps, and infrastructure teams to implement highly available networking solutions supporting enterprise applications, disaster recovery initiatives, and production cloud workloads.
- Developed network architecture documentation, implementation guides, disaster recovery procedures, and operational runbooks, improving knowledge transfer, operational readiness, and reducing engineer onboarding time by 30%.

Hexaware Technologies

Apr 2021 – Jul 2023

Network & System Engineer

- Managed enterprise WAN/LAN infrastructure supporting more than 900 network nodes across multiple business locations, maintaining over 99.9% network uptime while ensuring reliable connectivity for critical applications and services.
- Configured and administered Cisco Catalyst, Cisco Nexus, and Juniper EX Series routers and switches, implementing VLAN segmentation, Layer 2/Layer 3 switching, and routing enhancements that improved network scalability by 28%.
- Implemented and optimized OSPF, EIGRP, BGP, HSRP, NAT/PAT, QoS, and Layer 3 routing across distributed enterprise environments, reducing routing convergence time by 35% and improving application responsiveness.
- Designed, deployed, and maintained IPsec VPN and SSL VPN solutions connecting corporate offices, cloud infrastructure, and remote users, improving secure remote connectivity reliability by 40%.
- Supported AWS VPC networking, hybrid cloud routing, VPN Gateway integrations, and cloud firewall connectivity, enabling secure communication between on-premises infrastructure and cloud-hosted workloads.

- Administered Palo Alto and Fortinet firewalls by implementing security policies, firewall migrations, NAT configurations, and access control rules, reducing unauthorized access attempts by 32% while improving compliance.
- Utilized SolarWinds, Splunk, Wireshark, Cisco Meraki Dashboard, NetFlow, and SNMP for proactive network monitoring, capacity planning, and root cause analysis, reducing critical production incidents by 34%.
- Developed Python automation scripts for configuration backups, device health checks, and network reporting, reducing manual operational effort by 30% while improving configuration consistency.
- Partnered with server, cloud, security, and application teams during infrastructure upgrades, production deployments, and enterprise change management activities, ensuring seamless implementation with minimal downtime.

Mphasis

Jun 2019 – Mar 2020

Network Support Intern

- Provided L1/L2 technical support for enterprise networking environments by resolving connectivity, routing, switching, DNS, DHCP, VLAN, and TCP/IP issues, consistently meeting SLA targets and improving end-user satisfaction.
- Assisted senior engineers in configuring Cisco routers, Catalyst switches, VLANs, trunking, inter-VLAN routing, and port security, reducing deployment time by 20% for branch network implementations.
- Monitored enterprise network health using PRTG, SolarWinds, SNMP, and Wireshark to identify performance bottlenecks, packet loss, and bandwidth utilization issues before impacting production services.
- Supported firewall administration by validating ACLs, NAT configurations, VPN tunnels, and security policies under senior engineers, strengthening enterprise network security and compliance.
- Participated in firmware upgrades, switch replacements, network migrations, and scheduled maintenance activities while minimizing production downtime and ensuring service continuity.
- Created troubleshooting documentation, knowledge base articles, network topology diagrams, and operational runbooks that improved knowledge sharing and reduced issue resolution time by 25%.
- Assisted with incident response, root cause analysis, and ITIL-based change management activities using ServiceNow, contributing to faster ticket resolution and improved operational efficiency.

Education

Florida Institute of Technology

Master of Science in Computer Engineering

Melbourne, FL

May 2025

Prasad V. Potluri Siddhartha Institute of Technology (PVPSIT),

Bachelor of Technology in Electrical & Electronics Engineering

India

May 2023

Certifications

- Cisco Certified Network Associate (CCNA)