

Venugopal Kodavatikanti

Network Engineer

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PROFESSIONAL SUMMARY

Network Engineer with 4+ years of experience designing, deploying, and maintaining enterprise network infrastructures across cloud and on-premises environments. Proven expertise in LAN/WAN architecture, network security, firewall configuration, and high-availability systems. Hands-on experience with Cisco, Juniper, and cloud-native networking on AWS. Adept at troubleshooting complex network issues, optimizing performance, and ensuring 99.9%+ uptime for mission-critical systems. Strong background in automation, monitoring, and compliance across regulated industries.

TECHNICAL SKILLS

Networking Protocols & Technologies: TCP/IP, BGP, OSPF, EIGRP, MPLS, VLANs, STP, HSRP/VRRP, QoS, IPv4/IPv6, DNS, DHCP, NAT/PAT
Security & Firewalls: Cisco ASA, Palo Alto, Fortinet FortiGate, IPsec/SSL VPN, ACLs, IDS/IPS, Zero Trust Architecture, Network Segmentation
Hardware & Platforms: Cisco Catalyst/Nexus, Juniper EX/MX Series, Arista, F5 Load Balancers, Meraki SD-WAN, HPE/Aruba
Cloud Networking: AWS (VPC, Direct Connect, Transit Gateway, Route 53, CloudFront, ELB), Azure VNet, SD-WAN, Cloud-native Firewalls
Monitoring & Automation: SolarWinds, PRTG, Nagios, Wireshark, Ansible, Python (Netmiko/NAPALM), Terraform, Splunk, NetFlow/sFlow, SNMP
Compliance & Standards: PCI-DSS, HIPAA, SOX, NIST, ITIL, Change Management, Incident Response

EDUCATION

Master of Science in Computer Science May 2025
Lawrence Technological University
Bachelor of Technology in Computer Science and Engineering Nov 2020
Jawaharlal Nehru Technological University Kakinada (JNTUK)

PROFESSIONAL EXPERIENCE

Honeywell, USA Nov 2024 – Present
Network Engineer

- Designed and deployed enterprise LAN/WAN infrastructure supporting 10,000+ endpoints across multiple sites, improving network reliability by 28% through redundant topology and optimized routing policies (BGP/OSPF).
- Architected and maintained a high-availability firewall environment using Cisco ASA and Palo Alto, implementing Zero Trust segmentation that reduced lateral threat exposure by 40%.
- Built and managed SD-WAN deployment across 15+ branch offices using Cisco Meraki, achieving a 35% reduction in WAN circuit costs while improving application performance.
- Implemented AWS VPC architectures with Transit Gateway, Direct Connect, and security group policies to extend on-prem network fabric into cloud environments, enabling zero-downtime hybrid workloads and reducing p99 latency by 30%.
- Automated repetitive network provisioning tasks using Ansible and Python (Netmiko), reducing configuration deployment time by 60%, while mentoring junior engineers on routing/switching concepts and firewall policy best practices.

Infinite Infolab, India Aug 2021 – Jul 2023
Network / Systems Engineer

- Built and maintained scalable network infrastructure supporting 8,000+ daily active users across data centers and branch offices using Cisco Catalyst and Juniper EX-series switches.
- Designed secure VLAN segmentation and inter-VLAN routing policies for fintech environments processing over \$1M in daily transactions, achieving 45% reduction in network-related query latency.
- Optimized large-scale network data flows across multi-site WAN links using MPLS and BGP route policies, enabling sub-second failover for critical financial applications.
- Deployed and managed IPsec VPN tunnels and SSL remote access solutions for 500+ remote users, ensuring compliance with PCI-DSS and enterprise access control standards.
- Reduced network provisioning overhead by 96% (155s to 6s) through async configuration workflows, and hardened perimeter security via ACL policies, IDS/IPS tuning, and firewall rule optimization.

Orion Technolab, India Aug 2020 – Aug 2021
Junior Network Engineer

- Built and maintained RESTful network management interfaces with Swagger/OpenAPI documentation, enabling automated device provisioning and network change workflows.
- Improved network reliability by increasing monitoring coverage from 65% to 92% across managed devices, reducing production network incidents by 35%.
- Automated network device configuration backups and deployment pipelines using Docker and CI/CD workflows, reducing deployment and rollback time by 75%.
- Collaborated cross-functionally with systems, security, and application teams to streamline network integration projects and accelerate delivery timelines.

KEY PROJECT

Enterprise Multi-Site Network Redesign & Cloud Integration

- Architected and implemented a scalable hybrid network infrastructure across on-premises and AWS cloud environments, supporting 10,000+ daily active connections through secure BGP/OSPF routing, AWS Transit Gateway, and Direct Connect integration, reducing hybrid cloud latency by 25%.
- Optimized enterprise network performance and availability by implementing automated failover, QoS, caching, and route optimization strategies, resulting in 35% improvement in application availability, faster end-user response times, and reduced peak-time network congestion.
- Enhanced network operations and observability using NetFlow, SNMP, and Splunk-based monitoring pipelines while automating network runbooks, reducing manual network change efforts by 50% and improving operational uptime and compliance reporting.

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA) - Routing & Switching
- AWS Certified Advanced Networking – Specialty
- CompTIA Network+
- Palo Alto Networks Certified Network Security Engineer (PCNSE) - In Progress