

Sai Bhargav Kuncham

Network Engineer

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SUMMARY

Network Engineer with 3+ years of hands-on experience designing, implementing, and operating secure, high-availability enterprise and fintech network infrastructures across hybrid cloud and on-prem environments. Strong expertise in TCP/IP, subnetting, VLANs, and OSI model fundamentals, with advanced routing and switching using BGP, OSPF, MPLS, and SD-WAN. Experienced in deploying Zero Trust architectures, next-generation firewalls, VPNs, and network segmentation to meet PCIDSS and SOX compliance requirements. Proficient in AWS and Azure networking (VPC/VNet, routing, load balancing), disaster recovery design, and performance optimization for latency-sensitive systems. Skilled in network automation and IaC using Python, Ansible, and Terraform, with a strong background in monitoring, troubleshooting, and change management.

SKILLS

Programming & Automation: Python, Bash (Shell Scripting), Git, Ansible, Terraform, Infrastructure as Code (IaC), Configuration Management, Network Provisioning Automation

Networking & Routing Protocols: TCP/IP, Subnetting, VLANs, OSPF, BGP, EIGRP, IS-IS, MPLS, VRF, NAT, DNS, DHCP, IPAM, RIP, STP, VTP, EtherChannel, VLAN Trunking

Network Security & Zero Trust: Next-Generation Firewalls (Palo Alto, Fortinet, Cisco Firepower, Cisco ASA), IDS/IPS, ZTNA, SSL/TLS, IPsec, DLP, Micro-segmentation, Access Control Lists (ACLs), VPN, PCI-DSS, SOX, SOC 2, RBI, FFIEC Compliance

Cloud & Hybrid Networking: AWS VPC, Azure Virtual Network, Transit Gateway, Direct Connect, ExpressRoute, Cloud Load Balancers, Hybrid Connectivity Design, AWS, Azure, GCP Networking Concepts

SD-WAN & High Availability: Cisco Viptela SD-WAN, ECMP, HSRP, Redundant WAN Design, Traffic Engineering, Failover Architecture, WAN Technologies (MPLS, DWDM, Leased Lines)

Monitoring & Performance: SolarWinds, Splunk, ThousandEyes, NetFlow, SNMP, Network Telemetry, Latency & Packet Loss Analysis, Wireshark, Syslog

Wireless & Virtualization: WLAN, WPA/WPA2, Network Virtualization Wireless Site Surveys, (VMware NSX, Hyper-V, SDN)

Tools & Methodologies: Network Diagramming (Visio), Agile/Scrum Configuration Documentation, Network Diagnostics Troubleshooting & Root Cause Analysis

EDUCATION & CERTIFICATION

Master of Science in Computer science

Dec 2025

Roosevelt University, USA

B Tech in Computer science

Jul 2022

Guru nanak institutions technical campus, India

• Cisco CCNA (Cisco Certified Network Associate)

EXPERIENCE

CGI, USA | Network Engineer

Jan 2026- Present

- Architected hybrid enterprise networks integrating on-prem data centers with Azure Virtual Networks, while supporting network warehouse operations and optimization initiatives, reducing transaction latency by 38%.
- Designed and orchestrated Cisco Viptela SD-WAN across 120+ financial branches, enabling application-aware routing, lowering WAN costs 22%, and improving resiliency for trading workloads.
- Configured and maintained TCP/IP, VLAN, DNS, and DHCP services, ensuring seamless connectivity, high network reliability, and efficient warehouse network operations across enterprise environments.
- Managed and optimized OSPF and BGP routing protocols, enhancing network scalability, fault tolerance, and operational performance within network warehouse infrastructure environments.
- Implemented Zero Trust Network Access with Zscaler and Prisma Access, replacing legacy VPNs, strengthening identity-based controls, and reducing unauthorized access incidents by 45%.
- Engineered high-availability network architectures leveraging BGP, HSRP, ECMP, and redundant Direct Connect links to deliver 99.95% uptime for banking operations.
- Automated enterprise network provisioning using Terraform, Ansible, and Python workflows, accelerating infrastructure deployments while eliminating configuration drift across warehouse network environments and systems.

Persistent Systems, India | Jr. Network Engineer

Feb 2021 – Nov 2023

- Optimized scalable payment network architecture for UPI gateways and merchant acquiring platforms, improving transaction success by 32% during peak loads through optimized routing and latency-sensitive design.
- Implemented redundancy planning and traffic optimization strategies across payment networks, ensuring consistent performance and reliability for high-volume UPI and merchant transactions during nationwide peak usage.
- Established redundant MPLS and internet WAN using BGP and OSPF, increasing availability to 99.95% and ensuring uninterrupted digital wallet and card transactions.
- Designed resilient multi-data-center fintech connectivity supporting nationwide payment infrastructure, maintaining continuous transaction processing across distributed settlement and acquiring environments.
- Secured next-generation firewalls using Fortinet and Cisco Firepower, reducing security exposure by 35% and achieving PCI-DSS compliance for payment APIs and settlement systems.
- Designed hybrid cloud connectivity with AWS VPC, enabling secure lending analytics and fraud platforms while accelerating application deployments by 40%.
- Streamlined network configuration and monitoring using SolarWinds and NetFlow decreasing incidents by 35% through proactive alerting, validation workflows, and continuous performance visibility.