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| **SAI CHAND MEDAPATI**Senior Network Engineer

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Senior Network Engineer with over 8 years of extensive experience in architecting, deploying, and managing enterprise-grade networking and hybrid cloud infrastructures for large-scale organizations. Proven expertise in optimizing global connectivity and mission-critical operations through advanced routing protocols, including BGP, OSPF, MP-BGP, and EIGRP, ensuring seamless data flow across complex network ecosystems. Skilled in configuring and deploying cutting-edge switching technologies such as VLAN, VXLAN, EtherChannel, and LACP to enable scalable and highly efficient data transfer for diverse enterprise environments.

Expert in designing and managing multi-cloud platforms, including AWS, Azure, and Google Cloud, delivering scalable, secure, and business-aligned solutions. Adept in automating network operations and infrastructure provisioning using tools like Ansible, Terraform, and Python, significantly enhancing efficiency and reducing operational overhead. Experienced in securing enterprise networks through next-generation firewalls (Fortinet, Palo Alto), zero-trust architectures, IAM policies, and advanced threat prevention systems, resulting in a measurable 45% reduction in vulnerabilities and enhanced overall security posture.

Specialized in deploying and managing load balancing technologies, such as NGINX, Citrix NetScaler, HAProxy, and AWS Cloud Load Balancers, to ensure high availability, failover redundancy, and optimal application performance under variable workloads. Demonstrated expertise in designing and implementing comprehensive VPN infrastructures (IPsec, SSL, MPLS) to provide secure and seamless remote access across geographically distributed teams and hybrid work environments, fostering collaboration and efficiency.

Accomplished in wireless networking, utilizing advanced tools like Cisco Meraki, Aruba, Ekahau, and Ruckus to design and support high-density, large-scale environments, ensuring 99.99% uptime and reliability even under demanding conditions. Proficient in troubleshooting, analytics, and proactive performance monitoring using tools such as SolarWinds, Splunk, PRTG, and Wireshark, enabling the identification and resolution of latency issues and potential failures before they impact operations. Experienced in disaster recovery planning, data backup solutions, and database migration, achieving industry-leading recovery time objectives (RTO) under two hours with tools like Azure Site Recovery, AWS Backup, and Zerto.

**Technical skills:**

| **Category** | **Skills** |
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| **Networking Protocols** | RIP, IGRP, EIGRP, OSPFv2/v3, IS-IS, BGP v4, MP-BGP |
| **Routing & WAN** | HDLC, PPP, PPPOE, MPLS, IPSEC VPN, Route Redistribution |
| **Switching & Layer Tech** | VLAN, VXLAN, STP (PortFast, UplinkFast), EtherChannel |
| **Security** | Cisco ASA, Checkpoint, Port Security, DHCP Snooping, IPS/IDS, VPNs (SSTP, IPsec/SSL), IP Source Guard (IPSG),fortnet |
| **Cloud & Virtualization** |

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| AWS (VPC, subnets, security groups, IAM), Azure (ExpressRoute, Firewalls), Red Hat OpenShift, Virtual Machines, NFV, Containerized Microservices,GCP, Aviatrix, F5 Load Balancers |

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| **Load Balancing/QoS** | NGINX, QoS, Traffic Shaping, Load Balancing |
| **Monitoring Tools** | SolarWinds, Wireshark, PRTG, SNMP, NetFlow, Splunk |
| **Automation/Scripting** | Python, Ansible Playbooks, Terraform |
| **Databases/Storage** | Oracle 19c, Microsoft SQL Server 2019, Amazon RDS, Azure SQL Database |

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|  |  **Certifications** |  |

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|  | **Cisco Certified Network Associate (CCNA)** |

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|  | **Cisco Certified Network Professional (CCNP)** |

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|  | **Work History** |

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| 2023-11 - Current | **Senior Network Engineer** *T-Mobile, Chicago, IL** **Switch Deployment:** Deployed Cisco Catalyst 2960-X switches across 100+ endpoints, ensuring high-density connectivity, PoE+ support, and 99.9% uptime for VoIP/IoT devices.
* **Data Center Scaling:** Scaled Cisco Nexus 3000/5000/7000 series to build a 10+ Tbps data center backbone with VPC and VXLAN for seamless scalability.
* **Routing Configuration:** Configured OSPF, EIGRP, and BGP across 300+ routers, achieving sub-50ms failover times and reducing network convergence by 40%.
* **Network Security:** Enhanced security with Palo Alto, Fortinet, Checkpoint, and Cisco ASA appliances, managing 60,000+ concurrent sessions.
* **Access Control:** Integrated Aruba ClearPass for identity-based access control and deployed IPSec VPNs with IDS/IPS, reducing security incidents by 35%.
* **Wireless Networking:** Deployed Cisco LAN Controllers and Aruba Access Points across 60,000+ sq ft facilities, supporting 500+ users with optimized wireless coverage using Ekahau tools.
* **Automation:** Automated configurations and deployments using Python, Ansible, and Terraform, saving 100+ man-hours annually and improving scalability.
* **Performance Monitoring:** Monitored 300+ network devices using SolarWinds, Wireshark, and Splunk, reducing MTTR by 40% and ensuring optimal performance.
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| 2021-04 - 2023-09 | **Network Engineer** *Los Angeles Housing Department, Los Angeles, CA** **Router and Switch Deployment:** Deployed Cisco ISR 4331/4451 routers, Catalyst 2960-X/3850/9300 switches, and Nexus 9300 across 15+ sites, ensuring 99.9% uptime for over 800 users.
* **Compliance Enforcement:** Enforced compliance with NIST 800-53, ISO 27001, and GDPR standards using Cisco ASA 5585-X firewalls, AWS Security Hub, and Azure NSG rules to ensure robust security.
* **Firewall Management:** Configured and maintained firewall policies on Cisco ASA 5585-X and Azure Firewall, ensuring secure traffic flow and comprehensive access control.
* **Workload Security:** Secured workloads with AWS KMS and Azure Key Vault, automating encryption processes and key rotation for enhanced data protection.
* **Zero-Trust Implementation:** Implemented zero-trust access using Azure AD Conditional Access and Cisco Duo MFA, boosting security across hybrid environments.
* **Disaster Recovery Planning:** Designed disaster recovery strategies utilizing Azure Site Recovery and AWS Backup, achieving recovery time objectives (RTO) of less than 2 hours for critical services.
* **SD-WAN Automation:** Automated failover processes for Cisco SD-WAN using Terraform and Ansible, improving scalability and outage response times.
* **Infrastructure Monitoring:** Monitored hybrid infrastructure with SolarWinds NPM, AWS CloudWatch, and Azure Monitor, enabling proactive performance management and reducing mean time to recovery (MTTR).
* **Database Migration:** Migrated Oracle 19c to Amazon RDS and SQL Server 2019 to Azure SQL Managed Instance, optimizing query performance by 35%.
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| 2018-12 - 2021-02 | **Network Engineer** *Goldman Sachs, Chicago, IL** **Network Lifecycle Management:** Managed lifecycle for 120+ Cisco switches (Nexus 9508, Catalyst 9300/3850) and 60+ Juniper routers (MX204, MX480) across 15 global sites.
* **Incident Resolution:** Resolved 250+ critical incidents, including BGP route flapping and OSPF adjacency failures, ensuring stable and uninterrupted network operations.
* **Cisco ACI Deployment:** Deployed Cisco ACI with Nexus 9336C-FX2 spines, reducing provisioning time by 40%.
* **Application Migration:** Migrated 60+ on-prem applications to AWS using Juniper vSRX firewalls and Cisco CSR 1000v routers for enhanced scalability.
* **Hybrid Architecture Design:** Built an AWS hybrid architecture with Transit Gateway, VPC peering, and 1 Gbps Direct Connect for seamless integration.
* **Automation:** Automated SNMPv3 backups for Cisco IOS-XE devices and bulk BGP AS prepends on Juniper MX routers using Python and Ansible, saving time and improving efficiency.
* **Security Enhancements:** Enhanced security through NSX-T microsegmentation, Juniper vSRX policies, and PVLANs for trader workstations.
* **Documentation & Audit Support:** Authored Nexus 9000 VXLAN troubleshooting guides and maintained NetBox diagrams for PCI compliance audits.
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| 2016-05 - 2018-09 | **Junior Network Engineer**CSS CROP* **Network Device Management:** Managed and monitored 50+ network devices, including Cisco Catalyst 3560/3850/4500, Nexus 7000/9000, and HPE Aruba 8325, achieving 99.5% uptime.
* **High Availability Protocols:** Implemented HSRP, VRRP, and GLBP to enhance multi-site resilience and ensure high availability.
* **VLAN Design:** Designed and administered 15 VLANs with PVLANs and 802.1Q trunking, improving network performance by 20%.
* **Hybrid Cloud Projects:** Delivered hybrid cloud solutions on AWS and Azure, provisioning VPCs and Transit Gateways with less than 10ms latency.
* **Azure Integration:** Configured Azure Virtual WAN and ExpressRoute to enable seamless integration across environments.
* **Routing Protocol Optimization:** Resolved BGP and OSPF issues in multi-vendor environments involving Juniper MX480 and Cisco ASR 9000.
* **Firmware Updates:** Executed firmware updates for 60+ devices using Cisco Prime and Ansible, achieving 99% security compliance.
* **Secure Remote Access:** Deployed IPSec, SSL, and L2TP VPNs, enabling secure remote access for 100+ employees with sub-5-second connections
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