# **CHAND MEDAPATI**

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## **SUMMARY**

A results-driven Senior Network Engineer with extensive experience in architecting, implementing, and automating complex, large-scale network infrastructures. Proven expertise in designing secure, multi-vendor hybrid-cloud connectivity using BGP and dedicated interconnects. Adept at leading major SD-WAN transformations and modernizing data centers with advanced spine-leaf architectures utilizing EVPN/VXLAN and Cisco ACI. Proficient in significantly enhancing enterprise security posture through the implementation of comprehensive Zero Trust frameworks and streamlining network operations with robust CI/CD pipelines and Infrastructure as Code (IaC) practices.

## **PROFESSIONAL EXPERIENCE**

**T-Mobile – Remote**

**Senior Network Engineer | Oct 2023 – Present**

Designed and implemented a secure, high-performance hybrid-cloud backbone to interconnect AWS, Azure, and on-prem data centers. This strategic initiative modernized the legacy WAN, enforced granular Zero Trust policies to protect critical assets, and dramatically reduced operational overhead by integrating Cisco ACI/DNA automation and developing CI/CD-based workflows for network service delivery.

* Architected secure and resilient hybrid connectivity utilizing AWS Direct Connect, Azure ExpressRoute, and on-premises data center gateways with BGP for optimal path selection and failover.
* Designed and deployed Cisco ACI fabrics, establishing an intent-based networking model with policy-driven micro-segmentation using EPGs and contracts that effectively isolated workloads and minimized the attack surface.
* Successfully rolled out a Cisco SD-WAN (Viptela) solution to over 200 branch sites, which reduced costly MPLS dependency by 40% and improved application performance through centralized vSmart policies.
* Hardened the network perimeter by implementing and managing Palo Alto NGFWs (Panorama) with Threat Prevention and WildFire, and deploying Fortinet High-Availability clusters to enforce Zero Trust security.
* Automated routine VLAN, trunking, and firewall rule configurations using Ansible playbooks and custom Python scripts leveraging APIs, which reduced manual configuration errors by 60%.
* Built and maintained robust CI/CD pipelines using GitHub Actions and Jenkins for the automated validation and deployment of network changes via Terraform, leading to more consistent and reliable operations.

**Los Angeles Harbor Dept. (LAHD) – Los Angeles, CA**

**Network Architect | Apr 2021 – Sep 2023**

Led the complete migration of the city’s WAN from a traditional MPLS architecture to a flexible and centralized SD-WAN fabric connecting over 100 municipal sites. This initiative achieved significant annual cost savings, enabled seamless multi-cloud integration, and introduced advanced network observability to meet strict compliance mandates and performance SLAs.

* Directed the MPLS-to-SD-WAN migration, a project that resulted in a 3x increase in available bandwidth and delivered 35% annual cost savings through the consolidation of circuit contracts.
* Engineered a scalable multi-cloud transit network for AWS, Azure, and GCP, leveraging Aviatrix for centralized control and integrating Palo Alto VM-Series firewalls to enforce consistent security policies.
* Automated the entire site onboarding process and device configuration generation with Ansible and Python scripts, cutting new site rollout time from weeks to days, an 85% improvement.
* Integrated Prometheus, Grafana, and the ELK Stack (Elasticsearch, Logstash, Kibana) to create a unified telemetry and alarm correlation platform, improving root cause analysis and reducing MTTR.
* Designed and implemented robust QoS frameworks with detailed classification and marking policies to prioritize VoIP and critical city-wide collaboration applications, ensuring high-quality service delivery.
* Authored comprehensive network security baselines and operational runbooks, establishing a standardized and auditable posture that ensured continuous compliance with GDPR, HIPAA, and PCI-DSS standards.

**Goldman Sachs – Chicago, IL**

**Network Engineer | Dec 2018 – Mar 2021**

Modernized the firm’s high-frequency trading data centers by replacing legacy, STP-based Layer 2 designs with a highly scalable EVPN/VXLAN fabric in a spine-leaf topology. This project enabled active-active server connectivity and was critical for enhancing architectural scalability while ensuring the sub-millisecond latency required for competitive trading operations.

* Designed and deployed a BGP-based EVPN/VXLAN overlay on the Cisco Nexus platform (9K/7K/5K) with vPC, a move that eliminated Spanning Tree Protocol, significantly cut network convergence time, and boosted the resilience of critical trading applications.
* Implemented a multi-layered security model using Cisco ACI for east-west traffic segmentation and Cisco ISE for 802.1X network access control, protecting sensitive financial data by preventing lateral movement and automating security policy application.
* Automated PCI-DSS compliance checks and scheduled configuration backups for all Nexus devices using Python and Ansible, reducing audit preparation time by 60%.
* Supported a high-density trading floor Wi-Fi environment using Aruba and Cisco Wireless LAN Controllers (WLCs) to provide seamless, low-latency connectivity for hundreds of traders.
* Optimized PIM and IGMP configurations for multicast routing to ensure the efficient, real-time delivery of critical market data feeds with minimal latency.

**CSS CROP – Hyderabad, India**

**Network Engineer | Feb 2015 – Sep 2018**

* Executed a complete refresh of a 3,000+ user campus LAN, deploying a scalable and redundant 3-tier architecture using Cisco Catalyst and Aruba switches.
* Engineered the Layer 2 foundation by segmenting the network with extensive VLAN configurations, implementing 802.1Q trunking, and deploying Rapid Spanning Tree Protocol (RSTP) to ensure a loop-free, resilient topology.
* Configured Layer 3 routing using BGP and OSPF, and deployed EtherChannel with HSRP/VRRP to provide robust first-hop redundancy and high availability.
* Installed and configured Fortinet NGFWs and Cisco ASA firewalls in High-Availability (HA) pairs, securing the network perimeter and enabling remote connectivity via site-to-site and client VPNs.
* Automated routine switch configurations, nightly backups, and disaster recovery validation scripts using Ansible and Python, which ensured configuration consistency and reduced potential downtime.
* Implemented granular QoS policies for VoIP and video conferencing traffic, resulting in a 40% reduction in jitter and latency and a significantly improved user experience.
* Provided Tier 2/3 operational support by resolving network-related incidents and service requests escalated through the IT ticketing system, consistently meeting SLA targets.

## **EDUCATION**

**B.Tech in Engineering** – Amrita School of Engineering | 2012 – 2016

## **CERTIFICATIONS**

* **CCNP** (Cisco Certified Network Professional)
* **CCNA** (Cisco Certified Network Associate)

**SKILLS**

### **Cloud & Virtualization**

* **AWS:** VPC, Transit Gateway, Direct Connect, Route 53, AWS WAF, Shield, CloudWatch, CloudFront
* **Azure:** Virtual WAN, ExpressRoute, Azure Firewall, Azure Sentinel, Azure DNS, Load Balancer
* **GCP:** Cloud Interconnect, Cloud Armor, Cloud DNS, VPC Peering
* **Kubernetes Networking:** Calico, Cilium, Service Mesh (Istio/Linkerd)
* **Container Technologies:** Docker, Amazon EKS, Azure AKS, Google GKE
* **Virtualization:** VMware NSX-T, vSphere, Cisco UCS, Hyper-V

### **Networking & Data Center**

* **Cisco Technologies:** ACI, DNA Center, Nexus (9K/7K/5K), Catalyst (9500/9300/3850)
* **SD-WAN:** Cisco Viptela, Fortinet Secure SD-WAN, Citrix SD-WAN, Aruba EdgeConnect
* **Core Concepts:** EVPN/VXLAN, MPLS, Segment Routing, QoS, Multicast, VRF
* **Switching/Routing:** OSPF, BGP, EIGRP, RIP, VLANs, Trunking, EtherChannel, STP, VTP
* **WAN Optimization:** Riverbed, Silver Peak, WAN Acceleration

### **Firewalls & Security**

* **NGFW Platforms:** Palo Alto (Panorama, WildFire, GlobalProtect VPN), Fortinet (FortiManager, FortiAnalyzer), Cisco (Firepower, ASA), Juniper SRX, Check Point
* **Security Solutions:** Cisco ISE (NAC/802.1X), F5 ASM/WAF, Zscaler (ZIA/ZPA)
* **Identity & Access Management (IAM):** Azure AD (Entra ID), Okta, SAML, OAuth, OIDC
* **Architectures & Concepts:** Zero Trust Architecture, Micro-Segmentation (NSX-T, ACI), ZTNA, SASE
* **VPN & Tunneling:** IPsec, GRE, DMVPN, SSL VPN, Remote Access VPN
* **Compliance & Standards:** PCI-DSS, HIPAA, GDPR, NIST, SOC2

### **Automation & DevOps**

* **Programming/Scripting:** Python (Netmiko, NAPALM, Nornir, REST APIs, Paramiko)
* **Infrastructure as Code (IaC):** Ansible (Network Playbooks), Terraform, Packer
* **CI/CD & Version Control:** Git, GitHub Actions, Jenkins, GitLab CI, Azure DevOps
* **Configuration & State Management:** NETCONF, YANG, JSON, YAML

### **Monitoring & Observability**

* **Tools:** Prometheus, Grafana, ELK Stack, OpenTelemetry, SolarWinds NPM, Splunk, AppDynamics, ThousandEyes
* **Protocols:** SNMP, NetFlow, sFlow, Syslog, Distributed Tracing
* **ITSM Integration:** Alarm Correlation, Auto-Ticketing (ServiceNow/Jira)

### **Protocols & Services**

* **Routing:** OSPF, BGP, EIGRP, RIP, Segment Routing
* **Switching:** VLANs, VXLAN, STP, Trunking, LACP, EtherChannel
* **Tunneling:** GRE, IPsec, DMVPN
* **Redundancy:** HSRP, VRRP, GLBP, BFD
* **IP Services:** NAT, DHCP, DNS, IPv6, Multicast
* **Load Balancing:** F5 BIG-IP (LTM, GTM, ASM), NGINX, Citrix NetScaler, HAProxy