

# Khushbu Verma

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Phone: +919713994149

Current Location: Bangalore (Karnataka)

## CAREER OBJECTIVE

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Results-driven Network Security Engineer with 4 years of progressive experience at NTT Data, specializing in enterprise-grade network security, secure VPN architecture, advanced routing and switching (OSPF, BGP, EIGRP), and next-generation firewall management (including policy design, NAT, and deep packet inspection). CCNA certified and actively pursuing CCNP to further solidify expertise in securing complex network infrastructures. Demonstrated proficiency in designing, implementing, and managing resilient, scalable, and compliant network solutions across multi-site environments. Skilled in root cause analysis, threat mitigation, performance tuning, and aligning security strategies to meet organizational objectives.

## EDUCATION

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- Bachelor of Engineering in Computer Science **March 2012 - May 2016**  
ITM Universe, Madhya-Pradesh (India)

## PROFESSIONAL EXPERIENCE

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**Network Security Engineer** **April 2017 - April 2022**  
NTT Data | Bangalore (Karnataka), India

- Perform scanning of the NTT-managed security devices through Qualys and support activities in Qualys to get the appropriate scanning results.
- Generated and presented weekly/monthly Qualys vulnerability reports to clients, reducing unresolved vulnerabilities.
- Provided RMA support for CISCO devices.
- Performed daily health checks and weekly backups for security devices.
- Consulting and interacting with the end-users and determining various network security queries based on system functional requirement.
- Hands-on experience with Splunk SIEM Tool.
- Hands-on experience with Web Filtering on Palo Alto Firewall.

## PROFESSIONAL TRAINING

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**Network Security Trainee** **August 2024 - March 2025**  
Networkers Home | Bangalore (Karnataka), India

- CCNA (Completed):** Basics of Networking & its fundamentals.
- CCNP (In Progress):** Advanced Routing & Switching with L2 Security.
- CCIE Security Training:** Hands-on Experience with Virtual & Hardware Devices.
- Next Generations Firewalls Training (In Progress):** Palo Alto | Fortinet | Cisco FTD & FMC.

# NETWORK & SECURITY SKILLS

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- Good understanding of OSI Model, TCP/IP protocol suite (IP, ICMP, TCP, UDP, SNMP, FTP, TFTP, SMTP).
- Excellent understanding on application layer protocols (HTTP-HTTPS/SSL), PKI, Network Security-Firewalls/Proxy and SIEMs.
- Layer 2/Layer 3 Security Implementation: Port Security, Private VLAN, ACL.
- Designing and Managing Campus Area Network.
- Good Understanding on Dynamic Routing Protocol such as:
  - RIP / EIGRP: Routing Information Protocol / Enhanced Interior Gateway Routing Protocol
  - OSPF / BGP: Open Shortest Path First / Border Gateway Protocol
- Excellent understanding on Transport Layer Protocols:
  - TCP: Transmission Control Protocol
  - UDP: User Datagram Protocol
- Network Security Protocol such as:
  - IPSEC / SSL & TLS: Internet Protocol Security / Secure Socket Layer / Transport Layer Security
  - SSH / SFTP: Secure Shell / Secure File Transfer Protocol
  - HTTPS: Hypertext Transfer Protocol Secure
- Done hands-on training with Next Generation Intrusion Prevention Systems (NGIPS).
- Proficient in troubleshooting networking devices and hardware, using systematic diagnostics to identify and resolve issues.
- Hands-on training on Firewall/Next Generation Firewalls: Cisco ASA, Palo-Alto NGFW / Fortinet NGFW / Cisco FTD - Managed by FDM & FMC and Checkpoint firewall.
- Implementation of VPN [Virtual Private Network]: IKEv1, IKEv2
  - Routing Based VPN: GRE Tunnel & DMVPN Tunnel
  - Policy Based VPN: Site to Site VPN
  - Based on Protocols:
    - IPsec VPN: Internet Protocol Security VPN
    - SSL/TLS VPN: Secure Sockets Layer / Transport Layer Security VPN
  - Based on OSI Layer:
    - Layer 3 VPN: Site to Site, LAN to LAN
    - Layer 2 VPN: L2TP, MPLS VPN
- Hands-on training with ESA [Email Security Appliance]: SMTP, POP3, IMAP
  - Excellent understanding on Protocols like - SMTP, POP3, IMAP
  - Learned email packet flow and how email travel from sender mail server to receiver mail server.
- WSA [Web Security Appliance]: Implemented WSA in both mode: Transparent Redirection, Explicit Forwarding Configurations.