

MANDEEP SINGH

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PROFILE

A motivated and detail-oriented networking professional with a strong foundation in network administration, system security, and infrastructure management. Experienced in configuring and troubleshooting LAN/WAN networks, managing virtual environments, and implementing secure and scalable IT solutions. Proficient in network monitoring tools like Wireshark and SolarWinds for troubleshooting and optimizing performance. Build solid background in computer programming, database management, and software development. Passionate about applying technical expertise to real-world networking and software challenges. Eager to launch a career in Network Support, System Administration, or IT Support.

HIGHLIGHTS OF QUALIFICATIONS

Education

- Completed **Advanced Diploma in Computer System Technology - Networking** (Sep 2023 – April 2025), with **Honours** from Centennial College, Toronto, Ontario
- Bachelor of Computer Application, Punjabi University, Patiala, Punjab, India (2017 – 2020)

Relevant Academic Projects Experience

- Capstone Project - Network Infrastructure
- Designed and implemented a multi-branch network in Cisco Packet Tracer. Configured VLANs, OSPF routing, DHCP, and DNS services.
- Secured the network using firewalls (nftables), ACLs, and encryption protocols.
- Online Thrift Store IT Infrastructure Setup Prototype
- Developed and managed an e-commerce platform using Linux and Windows servers hosted on VMware ESXi.
- Configured Active Directory, Samba file sharing, Apache web server, and QNAP database.
- Integrated network security policies to protect customer data.

Technical Skills

- Network Configuration & Troubleshooting (Routers, Switches, VLANs, OSPF, BGP)
- Network Security (Firewalls, ACLs, VPNs, Encryption, Ethical hacking)
- Network Monitoring (Wireshark, SolarWinds, NMS)
- System Administration Window/Linux Server (Active Directory, DNS, DHCP, Samba)
- Programming (Python, Java)
- Cloud Platforms (Microsoft Azure, AWS, Google cloud)
- Telecommunication with Avaya Server (SIP, H.323, PRI Trunks, endpoint provisioning)

Soft Skills

- Attention to Detail and Time Management
- Good Communication
- Teamwork and Collaboration

ACADEMIC EXPERIENCE

Network Infrastructure Project (Capstone Project)

Jan 2025 – Apr 2025

Centennial College, Scarborough, ON, Canada

- Designed and implemented a multi-branch network in Cisco Packet Tracer, simulating an enterprise network expansion. Moreover, implementing it on lab Router, switches and established connection with servers, running on VMware to access different services.
- Configured VLANs, OSPF routing, DHCP, and DNS services for efficient network segmentation and routing.
- Secured the network using firewalls (nftables), access control lists (ACLs), and encryption protocols.
- Established a centralized ISP connection for optimized bandwidth management across five branches.

Online Thrift Store IT Infrastructure Setup Prototype

Sep 2024 – Dec 2024

Centennial College, Scarborough, ON, Canada

- Developed and managed an e-commerce platform using Linux and Windows servers hosted on VMware ESXi.
- Configured Active Directory, Samba file sharing, Apache web server, and QNAP database.
- Implemented network security policies to protect customer data and prevent unauthorized access.

EXPERIENCE

IT Support Operation Specialist | DBS Networks – Toronto, ON

Sep 2022 – Apr 2025

- Spearheaded rack & stack operations for 60+ VMware ESXi hosts and 300+ VMs across multiple data centers, ensuring optimal performance and scalability
- Delivered 10+ small/medium projects (e.g., SSO migrations, SaaS integrations) for clients like Access Storage and healthcare facilities, emphasizing security and scalability.
- Designed and implemented comprehensive network infrastructure including switches, routers, access points, security camera systems, and structured cabling for diverse industry sectors
- Handled DNS, email system configuration, and reputation management.
- Created detailed technical documentation and user guides, enabling seamless knowledge transfer and remote support capabilities

SaaS Platform Administrator & Technical Lead | Leafva – Remote

Nov 2024 - May 2025

- Managed Linux-based LAMP hosting for 100+ users with 99.8% uptime.
- Led cPanel/WHM server provisioning, migrations, and incident response.
- Automated server monitoring and security patching using Bash and Python.
- Diagnosed and resolved complex performance and security issues, including database optimization and blacklisting remediation.
- Provided technical leadership and coaching to support teams.

PROFESSIONAL DEVELOPMENT

- Completed introduction to cybersecurity and pursuing for Junior Cybersecurity Analyst Certificate.
- Perusing Network Technician Certificate and preparing for CCNA Exam.
- Expanding knowledge in cloud networking (AWS, Azure) and SD-WAN technologies.