SUSHAN ARYAL

Networking and Cybersecurity Enthusiast

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EDUCATION

Bachelor of Computer Sceince Honor
Taylor's University
2023- 2026

EXPERTISE

- Management Skills
- Negotiation
- Critical Thinking
- Communication Skills

LANGUAGE

- English
- Nepali
- Hindi

PROFILE

As a dedicated student passionate about computer networks and cybersecurity, I have developed a strong conceptual understanding of network architecture, protocols, and services. Through extensive lab work in Cisco Packet Tracer and GNS3, I have built and simulated networks involving routers, switches, VLANs, routing protocols, firewalls, and more. While I am yet to gain full hands-on industry experience, my ability to design, troubleshoot, and secure networks in virtual environments reflects my readiness to apply this knowledge in real-world ISP settings and further sharpen my practical skills.

RELEVANT PROJECT

Enterprise VLAN Network with Inter-VLAN Routing

Designed an enterprise-level VLAN-based network with departments like Admin, Sales, and IT on separate subnets. Configured trunking and inter-VLAN routing using a Layer 3 switch. Applied ACLs to control access between VLANs.

Static and Dynamic Routing Protocol Lab (RIP, OSPF)

Simulated multi-router networks using static routing, RIP, and OSPF protocols. Compared convergence times, routing efficiency, and troubleshooting scenarios. Demonstrated route summarization and redistribution.

IPsec VPN Tunnel Between Primary and Branch Office

Established a secure site-to-site IPsec VPN between head office and branch using Cisco routers. Configured phase 1 and 2 policies, crypto maps, and NAT exemption to secure inter-site communication.

Firewall Setup with Cisco ASA

Implemented perimeter firewall protection using Cisco ASA in Packet Tracer along with Zone-Based Policy Firewall (ZPF) on Cisco routers. Defined security zones (Inside, Outside, DMZ), configured ACLs, NAT, and inspection policies. Deployed class maps and policy maps to inspect internal-to-external traffic and block untrusted connections effectively.

Wireless Router & Access Point Configuration

Configured a wireless router with WPA2 security and MAC filtering. Added an Access Point (AP) to extend coverage in a lab environment. Performed channel optimization and SSID management.

DHCP and DNS Services in a Multi-VLAN Setup

Set up a centralized DHCP server providing dynamic IPs to multiple VLANs using DHCP relay. Configured a local DNS server to resolve internal hostnames across VLANs and tested end-to-end resolution.

CERTIFICATION/BADGES

Network Essentials

- By Cisco
- Network Addressing and Basic Troubleshooting
- Network Support and Security Badge (Badge ID: 20230624-28-twaunx)
- Network Technician Career Path Badge (Badge ID: 20230624-28-mkk1mk)
- Networking Devices and Initial Configuration Badge (Badge ID: 20230624-28-fldhnq)

AWS Cloud Essentials

- By AWS Cloud
- Gained foundational knowledge of AWS cloud services and infrastructure.

Introduction to Dark Web, Anonymity, and Cryptocurrency

- By EC-Council
- Explored the principles of anonymity, dark web practices, and the role of cryptocurrency in secure transactions.

SKILLS

Cybersecurity Skills

- Tools & Frameworks: Burp Suite, Aircrack-ng, Nmap, Zenmap, Wireshark
- Linux & Scripting: Hands-on with Kali Linux ; written basic Bash scripts for automation and recon tasks

Networking Skills

- Tools & Simulations: Cisco Packet Tracer, GNS3
- Network Design: Configured routers, switches, VLANs, subnetting, DHCP, and static/dynamic routing protocols
- Security Configurations: Firewall setup (ZPF & Cisco ASA), VPN, SSH, basic ACLs

CTF Participation

Participated in two on-site Capture the Flag (CTF) competitions held at IIMS College, solving challenges in web exploitation, cryptography, and reverse engineering. Also actively takes part in online CTF platforms like TryHackMe, Hack The Box, and PicoCTF to strengthen practical cybersecurity skills.