

KHEM RAJ PANERU

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PRACTICAL EXPERIENCE

System & Network Lab Projects – Canadore College

Jan 2024 – Present

Mississauga, ON

- Configured routers and switches using Cisco Packet Tracer; implemented VLANs, trunking, and inter-VLAN routing.
- Built and troubleshooted network topologies with static routing, RIP, NAT, DHCP, and subnetting.
- Collaborated in lab teams to identify and resolve IP conflicts, routing loops, and configuration errors.

Windows Server Administration – College Labs

Sept 2024 – Dec 2024

Mississauga, ON

- Installed and configured Windows Server 2019 with Active Directory, DNS, and DHCP roles.
- Used Group Policy Objects (GPO) to manage user environments and enforce security settings.
- Automated administrative tasks like user creation, system updates, and event log collection using PowerShell.

PROJECTS

POS System with NFC Simulation

Python | Tkinter | SQLite

- Simulated a tap-to-pay POS system using NFC logic with real-time transaction and inventory logging.
- Designed a custom UI and stored transactions in SQLite; implemented dynamic receipt generation.

Bitcoin Price Tracker | Source Code

Python | REST API | JSON

- Built a CLI tool to fetch real-time Bitcoin data using the CoinCap API.
- Handled API response validation, CLI input processing, and calculated total investment cost.

Cisco Networking Lab Automation

Cisco Packet Tracer | CLI

- Automated VLANs, trunking, and routing setups across multiple lab scenarios.
- Documented lab configurations including DHCP, RIP, NAT and loopback interfaces.

Remote IT Support Toolkit

PowerShell | Bash | Windows Server | Docker

- Automated user creation, log export, and remote maintenance tasks using PowerShell scripts.
- Tested automation scripts across containers with Docker; integrated logging features.

TECHNICAL SKILLS

Languages: Python, SQL, PowerShell, Bash, HTML, CSS

Networking: VLANs, Subnetting, NAT, DHCP, RIP, OSPF (basic), DNS, Active Directory

Platforms/Systems: Windows 10/11, Windows Server 2016–2022, Ubuntu

Tools: Cisco Packet Tracer, Wireshark, Docker, Git, GitHub, VS Code, VirtualBox, Hyper-V

Admin/Automation: GPO, Event Viewer, RDP, Imaging, Scheduled Tasks

CERTIFICATIONS

CS50: Introduction to Computer Science — HarvardX

Career Essentials in System Administration — Microsoft

Computer Hardware Basics — cisco

Cisco CCNA Prep (Self-Study)

EDUCATION

Canadore College

Expected Graduation: April 2025

Diploma in Computer Systems and Networking Technician

Mississauga, ON, Canada

- Relevant Courses: Routing & Switching, PowerShell Scripting, Linux, Windows Server, Network Security, Cybersecurity Fundamentals