

# KHEM RAJ PANERU

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## Practical Experience

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### System & Network Lab Projects – Canadore College

sep 2024 – dec 2024

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

Apr 2025 – Aug 2025

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

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### POS System for Small Cafes (CS50 Final Project)

Python | CSV | Pytest

- Built a lightweight **POS system** with CSV-based inventory and stock updates.
- Implemented `load_inventory()`, `save_inventory()`, and `purchase_item()` with error handling.
- Created a CLI and unit tests with **pytest** for reliable transactions.

### Bitcoin Price Tracker

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

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

Networking: VLANs, Subnetting, NAT, DHCP, RIP, OSPF, 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

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- Microsoft Certified: Azure(Az-900) Fundamentals
- CS50: Introduction to Programming with Python — HarvardX
- Career Essentials in System Administration — Microsoft
- Computer Hardware Basics —Cisco
- Infosys Springboard: Basic of Python
- Microsoft Azure Administrator (AZ-104) ,self study

Education

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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 , Azure Administrator