


KHEM RAJ PANERU

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SUMMARY

Aspiring System Technician and Network Administrator with hands-on experience in scripting, Windows Server configuration, Docker, and Cisco networking simulations. Passionate about solving technical problems, securing systems, and building reliable IT infrastructure.

WORK EXPERIENCE

PROJECTS

POS System with NFC Simulation

Python | Tkinter | SQLite

- Developed a Point of Sale system simulating NFC-based tap-to-pay functionality.
- Stored transactions and user data in SQLite; implemented real-time price calculation and receipt generation.

Bitcoin Price Tracker (CoinCap API)

Python | REST API | JSON

- Built a command-line tool to fetch real-time Bitcoin price using the CoinCap API and calculate investment cost based on user input.
- Implemented HTTPS request handling, error checks, JSON parsing, and CLI argument processing.

Cisco Networking Lab Automation

Cisco Packet Tracer | CLI

- Configured routers, switches, and VLANs using CLI in Packet Tracer.
- Created lab simulations for static routing, RIP, NAT, DHCP, and trunking.

Remote IT Support Toolkit

PowerShell | Bash | Windows Server | Docker

- Automated user account creation, event log collection, and Windows updates via PowerShell scripting.
- Used Docker containers to test cross-platform automation scripts in controlled environments.

TECHNICAL SKILLS

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

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

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

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

Administration: User account automation, GPO basics, remote desktop, system imaging, backups

CERTIFICATIONS

CS50: Introduction to Computer Science – HarvardX

Computer Hardware Basics

Career Essentials in System Administration

Cisco CCNA Prep (Self-Study)

LANGUAGES

English – Fluent

Nepali – Native

Hindi – Fluent

EDUCATION

Canadore College

Expected Graduation: April 2025

Mississauga, Ontario, Canada

Degree in Computer Systems and Networking Technician

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