Karandeep Singh Sehgal

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Professional Summary

Systems-focused cybersecurity graduate with hands-on experience in infrastructure security, virtualization, automation, and backend development. ISC2 Certified in Cybersecurity (CC) and top 2% on TryHackMe. Skilled in PowerShell, Active Directory, virtualization (VMware), and cybersecurity tools (Nessus, Suricata, Splunk, ELK Stack, OpenVAS, Nikto, Metasploit). Strong foundation in network configuration, server management, ISO documentation, and cloud platforms (Azure, AWS). Currently working as a Systems Engineer Intern at Pathway Communications.

Technical Skills

Systems & Server	Windows Server, Active Directory, Group Policy, M365, Print Server, MS Exchange
Security & Monitoring	Splunk, Suricata, ELK Stack, OpenVAS, Nessus, Metasploit, Nikto, Wireshark, Bitdefender, MS Defender
Networking	TCP/IP, LAN/WAN, VPN, Routing, Firewall Configurations
Virtualization & Cloud	VMware, Hyper-V, Azure, AWS
Automation & Scripting	PowerShell, Bash, Kaseya, RMM tools
Database & Tools	SQL, NoSQL, Filebeat, Elasticsearch, Kibana, Git
Documentation	ISO 27001, ISO 9001, Asset Management, SOP Writing
Others	Microsoft Excel (VLOOKUP, Pivot Tables), Visual Studio, REST APIs

Certifications & Highlights

Certifications:	ISC2 Certified in Cybersecurity (CC), AWS Cloud Security Foundations, EC-Council – Security Automation with Ansible
TryHackMe Badges:	Jr Penetration Tester, Web Security, Presecurity
Currently Pursuing:	CCNA, CompTIA Security+

Experience

Pathway Communications, Systems Engineer Intern   Markham, ON
                                                                       Aug 2025 – Present

- Assisted with enterprise infrastructure and security operations, ensuring uptime and compliance.
- Gained hands-on experience in endpoint management, network monitoring, and incident response.
- Collaborated with senior engineers to strengthen system resilience and improve security posture.

Celebal Technologies, Backend Development Intern   Jaipur, IN
                                                                       June 2023 – Aug 2023

- Built scalable RESTful APIs using Node.js and Express.
- Worked with MongoDB to design and optimize schemas.
- Containerized microservices using Docker with DevOps team.
- Ensured secure coding practices and collaborated in Agile workflows.

Projects

IoT Device Security with AWS & Suricata
GitHub Link

- Secured IoT devices using Raspberry Pi and a temperature sensor.
- Integrated AWS IoT Core with Suricata IDS, Filebeat, Elasticsearch, and Kibana.

- Built dashboards to detect anomalies and suspicious traffic in real time.

Windows AD Security Lab
GitHub Link

- Configured a 3-VM lab with Windows Server (AD), Windows Client, and Kali Linux.

- Conducted enumeration, exploitation, and defense strategies to analyze AD vulnerabilities.

- Documented attacks, screenshots, and remediation steps.

Suricata Log Analysis and Reporting System
LinkedIn Link

- Developed a real-time log analysis system with ELK Stack and Suricata IDS.

- Parsed and shipped logs with Filebeat and Logstash; visualized in Kibana.

Compliance-Focused CyberReports
GitHub Link

- Analyzed CTF scenarios and documented exploits, attack vectors, and remediations.

- Tools used: Burp Suite, Nmap, Wireshark, LinPEAS, Metasploit.

Proxmox VE Hardening Lab
LinkedIn Link

- Built a virtualization homelab using Proxmox VE to simulate enterprise IT environments.

- Configured multiple VMs and applied hardening techniques: firewall rules, segmentation, patching.

Education

PGDip **Seneca Polytechnic**, Cybersecurity and Threat Management   May 2025 – Present
- Key Topics: Network Security, Incident Response, Cyber Law

PGDip **Conestoga College**, Reporting Systems and Database Development   Sept 2024 – Apr 2025
- **GPA:** 3.91 / 4.00
- Topics: SQL, NoSQL, Vector Databases, Data Visualization, Log Analysis

BTech **Amity University**, Computer Science and Engineering   Aug 2020 – June 2024
- **GPA:** 3.6 / 4.00
- Topics: Data Structures, Operating Systems, Networking, DBMS