LOVEPREET SIDHU
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SUMMARY OF QUALIFICATIONS

- Final-year Information Technology student specializing in **Network Administration & Security**, with hands-on project experience in enterprise networking, digital forensics, system security, and cloud-based infrastructure.
- **Proficient in configuring and troubleshooting** Cisco networks (OSPF, BGP, VPNs), implementing security controls (SIEM, forensic tools), and administering Windows Server and Linux systems, with applied experience in wireless networking (Wi-Fi 6) and IoT systems.
- **AWS Certified Solutions Architect – Associate**, experienced in structured, high-pressure environments with strong documentation practices and the ability to communicate effectively with both technical and non-technical stakeholders.

TECHNICAL SKILLS

Networking & Infrastructure: Cisco IOS, LAN/WAN Design & Troubleshooting, VLANs, IPsec VPNs, IPv4/IPv6, Firewall Policy

Security & Digital Forensics: SIEM/IDS (Wazuh, Splunk), Digital Forensics (Disk/Memory - Autopsy, FTK, Volatility), Nmap, Wireshark, WPA3, 802.1X

Systems & Cloud: Windows Server 2016/2019 (AD, DNS, GPO), Windows desktop (Windows 10/11), Linux (Ubuntu, Kali), Bash, AWS (VPC, EC2, S3, IAM, CloudWatch), Docker

Wireless & IoT Systems: WLAN Architecture (Wi-Fi 6), RF Fundamentals, Wireless Surveys, IoT (MQTT, Sensor Networks, Arduino, Security)

Tools & Platforms: Git, VirtualBox, ERP (Odoo), MySQL, Technical Documentation, Hardware Support

EDUCATION

Bachelor of Technology – Information Technology | Kwantlen Polytechnic University
Intended Specialization: Network Administration and Security | *Sep 2022 – Dec 2026 (Expected)*
Relevant Coursework: *Networking, Wireless Security, IoT*; *System Security and Development*
Certifications: AWS Certified Solutions Architect – Associate *(November 2024),* AWS Certified Cloud Practitioner *(February 2024)*

PROJECTS

File Integrity Monitoring tool & Host-Based Security Lab| System Security | *March 2025*

- Deployed and configured host-based intrusion detection (HIDS) using OSSEC on Linux VMs to monitor system logs, file integrity, and rootkit activity.
- Engineered a file integrity monitoring (FIM) capability using cryptographic hashing to detect unauthorized file changes through real-time directory monitoring using JAVA.
- Validated detection accuracy by analyzing security alerts and documented the system's architecture and security value for both technical and compliance,

Integrated Security & Network Forensics Lab| Digital forensics | *March 2025*
- Configured and secured a multi-VLAN corporate topology using Cisco IOS for Layer 2/3 segmentation and OSPF for internal routing in a simulated environment.
- Performed incident response by conducting digital forensics on a compromised virtual machine with Autopsy and FTK Imager and analyzed captured traffic in Wireshark to trace credential harvesting and reconstruct the attack sequence.

STaaS Cloud-Based Smart Drive | Cloud Computing | *December 2024*
- Architected a secure AWS infrastructure using a VPC with segmented public/private subnets, NAT Gateways, and Bastion hosts to enforce network isolation
- Developed a scalable storage platform using Java Spring Boot and AWS S3, featuring automated file classification, secure pre-signed URLs, and storage quotas
- Technologies: AWS (VPC, EC2, S3, IAM), Java Spring Boot, Docker, MongoDB

EXPERIENCE

Porter | Vancouver Coastal Health – *Vancouver, BC | October 2022 – Present*
- Facilitated patient transport and equipment management within a high-volume clinical setting, ensuring operational efficiency and safety
- Maintained clear communication with medical staff to prioritize urgent requests and minimize workflow disruptions

Delivery Driver | United Parcel Service (UPS) – *Delta, BC | October 2021 – February 2022*
- Executed time-sensitive deliveries using logistics software and real-time tracking systems to meet strict deadlines
- Optimized delivery routes independently to maximize efficiency and maintain vehicle safety standards

Sales Representative | BELL (Authorized Dealer) – *Surrey, BC | April 2018 – August 2021*
- Assisted customers with mobile device setup, software troubleshooting, and 5G network plan selection
- Resolved technical inquiries regarding hardware specifications and connectivity issues to improve user satisfaction

Field Sales Representative | TELUS (Authorized Dealer) – *Surrey, BC | April 2017 – March 2018*
- Advised customers on fiber network upgrades and provided setup support for home connectivity solutions
- Educated clients on product features and installation processes, simplifying technical concepts for non-technical users

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VOLUNTEER

Event Support Volunteer | Cystic Fibrosis Foundation – *Burnaby, BC | May 2025*
Supported logistics coordination and participant assistance to raise awareness and funds for research