

**Amritveer Singh** | (778) 859-7827 | amrit.code@proton.me | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## Objective

Systems and network-focused IT professional with hands-on experience in Linux administration, virtualization, and segmented network infrastructure. Experienced in operational incident response, troubleshooting, and multi-site field support environments.

## Education

**Associate of Science (Computer Science)**

September 2023 - September 2025

*Columbia College, Vancouver*

## Skills

- **Networking & Protocols:** TCP/IP, VLANs (802.1Q), DHCP/DNS, NAT/PAT, Inter-VLAN Routing, Subnetting, LAN/WAN Troubleshooting
- **Systems & Virtualization:** Linux (Arch, Debian, Ubuntu, Alpine), Proxmox VE, LXC Containers, Windows 10/11, Bash scripting, macOS
- **Systems Administration & Tools:** tcpdump, iptables, ssh, ping, dig/nslookup, Git/GitHub, Cisco Packet Tracer
- **IT Operations & Support:** ITSM Ticketing Systems & Escalation Workflows, Remote Troubleshooting Tools, Active Directory Concepts, Microsoft 365 Administration, Incident Logging

## Technical Projects

### [Multi-Tenant Virtual Network Infrastructure \(Proxmox VE & Linux\)](#)

- Designed and deployed a segmented virtual network infrastructure using a VLAN-aware Linux bridge (vbr1) on a Proxmox VE hypervisor.
- Implemented isolated VLANs and subnets for administrative (10.0.10.0/24) and guest (10.0.20.0/24) environments using 802.1Q tagging and Linux bridge subinterfaces.
- Configured inter-VLAN routing and NAT on the Proxmox host to provide controlled outbound internet access for containerized workloads.
- Deployed centralized DHCP services using dnsmasq inside an Alpine Linux LXC container with separate interfaces attached to VLAN 10 and VLAN 20.
- Troubleshoot DHCP, routing, and connectivity issues using tcpdump, iptables, ping, and Linux networking tools.

### [ARMv7 Microarchitecture Design & Assembler Toolchain \(Verilog & Python\)](#)

- Implemented a hardware-descriptive ARMv7 CPU core featuring a multi-stage instruction fetch, decode, and ALU execution pipeline.
- Validated design behaviour using modular structural testbenches simulated within ModelSim.
- Built a custom macro-assembler toolchain in Python to parse low-level assembly language syntax, handle memory labels, and compile instructions down to raw hexadecimal machine code.

## Work Experience

**Mobile Supervisor** at Guardteck Security

November 2025 - Present

- Investigated, diagnosed, and resolved operational incidents and emergency alarm dispatches in the field using structured troubleshooting workflows.

- Served as the primary on-site escalation point for security, telecom, and building automation system alerts across a multi-site network of regional commercial facilities.
- Maintained a flexible availability, consistently participating in rigorous on-call shift rotations and responding to urgent service demands.
- Maintained detailed technical logs, incident tickets, and operational reports used for auditing, process optimization, and stakeholder communication.

**Mobile Security Officer** at Guardteck Security

August 2024 - November 2025

- Patrolled long perimeters and in indoor/outdoor environments and confined spaces.
- Responded to technical and operational issues on-site; ensured timely documentation and reporting.

**Volunteer Experience**

**Team Leader** at Surrey Fire Service

August 2024 – Present

- Educated residents on fire safety and emergency preparedness through the [HomeSafe](#) Program.
- Used GIS mapping to plan and track outreach activity.
- Received written commendation from Deputy Fire Chief for dedication and reliability.

**Certifications**

- Driving License with a clean driving record: **Class-5, BC**
- EMRG-1600: Introduction to Emergency Support Services, **JIBC**
- Security License, **Security Programs Division, BC**