

David Vu

Roles: Network Administrator | IT Support | Software Developer

Education

- **Program:** Software Development & Network Engineering | *Advanced Diploma*
- **Institution:** Sheridan College | Jan 2022 - Jan 2025

Work Experiences

Network Administrator (Full-time) - Lynch Fluid Controls | Mississauga, ON | June 2025 - Present

- Managing **Lynch Network**: Layer-2 Switches (Dell PowerConnect), Multilayer Switch/Router (Inter-VLAN Routing), SAN, UTM Firewall (Sophos), Meraki Access Points, Meraki PoE Switches, Security Camera VLAN (Reolink).
- Administered **VMs** using **VMware vCenter** for **3 ESXi** hypervisors, hosted on **Dell PowerEdge R710** servers.
- Developed and customized features in **MS Business Central** using **AL** to support **ERP** processes. Integrated **Shopify** as Lynch Storefront using **Liquid** and MS 365 to automate business workflows.

IT Support Technologist (Part-time) - Sheridan College | Mississauga, ON | Sep 2023 - Dec 2024

- Provided **Front Desk Support** for troubleshooting technical issues. Managing tickets with the **ServiceNow** system.
- Reimaged student loaner laptops. Enrolling staff laptops into **MS Intune** using **Windows Autopilot**.

Software Developer (Intern) - Skill Squirrel | Mississauga, ON | May 2024 - Sep 2024

- Using **React** along with **Material UI** to distribute for the main web pages, **Express** for backend development.
- Utilizing **Jira** and **GitHub** for project management and version control of code base.

Technical Analyst (Intern) - Ministry of Transportation | Toronto, ON | Jan 2023 - Dec 2024

- Assisted in IT security assessments, including security testing, risk assessments, and management of deliverables.
- Conducted vulnerability assessments using **Nessus**, performed penetration testing, and mitigated security risks.

Projects

- **VLAN Networking Infrastructure Redesign** | Lynch Fluid Controls - Networking Project
 - Led a network redesign project to simplify and optimize VLAN architecture, **reducing unnecessary VLANs** and consolidating the environment to support **~150 devices** efficiently.
 - Implemented **VRRP** for **gateway redundancy**, **EtherChannel** for higher bandwidth on logical links.
 - Applied **ACL rules** for **segmentation of Guest Wi-Fi SSID** (isolated, internet-only) and **Security Cameras** (restricted access to **NVR systems**, hardened hardened with minimal required ports).
 - Migrated network infrastructure from **Sophos**, **Dell** to **Cisco Meraki** (UTM Firewall, Switches, APs).
- **ESXi Host Storage & Hardware Maintenance** | Lynch Fluid Controls - Hardware Project
 - Investigated amber blinking drive indicator on a **Dell PowerEdge R710** VMware ESXi host, diagnosing a failed disk **backplane** using the **PERC 700 RAID controller**.
 - Safely **migrated VMs** to another **ESXi Host** using **vCenter** prior to maintenance to avoid service disruption.
 - Performed **backplane replacement** and **RAID 1 rebuild**, restoring host stability and data redundancy.
 - Configured **iDRAC 6** for out-of-band management, hardware health monitoring, and remote troubleshooting.

Technical Skills

- **Operating Systems:** Windows Server (2016/2019), Windows 10/11, Linux (Linux Mint), macOS.
- **Virtualizations:** VMware ESXi (vCenter Server Appliance), Hyper-V, Proxmox.
- **Networking:** Inter-VLAN Routing (OSPF), Switching, Subnetting, NAT, ACL, Gateway Redundancy (VRRP).
- **Programming Languages:** HTML, CSS, JavaScript, TypeScript, Java, Swift, C#, SQL, PHP, C.
- **Hardware:** Dell PowerEdge R710, RAID, Raspberry Pi, Voice Phones (VoIP), Security Cameras (Verkada).
- **Tools:** Active Directory, SMTP Server, Building Security (Symmetry), Apache (Web Server), Microsoft 365 Admin.