

# 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**.
- Deployed **Teams-certified IP phones** for new staff, separate **Data and Voice VLAN** on access switches, implemented **QoS** policies to prioritize **VoIP traffic** and ensure call quality.

### **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 **VRP** 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.