HAN LWIN HTOO

hanlwinhtoo.connect@gmail.com · linkedin.com/in/hanlwinhtoo
Portfolio: hanlwinhtoo.github.io · github.com/hanlwinhtoo

PROFESSIONAL SUMMARY

Computer Engineering student at Singapore Polytechnic, specialising in Cloud Systems, focused on DevOps and cloud infrastructure. Learns by building: a self-hosted Proxmox homelab, Windows Server domains, and multi-site Cisco networks. Currently working toward CCNA and RHCSA. Seeking a year-long industrial attachment in DevOps or cloud infrastructure from March 2027.

EDUCATION

Singapore Polytechnic, Singapore *April 2025 – April 2028 (expected)*
Diploma in Computer Engineering — Specialisation in Cloud Systems

- **Relevant coursework:** Cloud Foundations, Linux Essentials, Computer Networking, LAN Switching & Wireless, Server Management, Network Hacking, ML/AI with Python
- **CGPA:** 3.2 / 4.0

Guarantee International College, Yangon, Myanmar *July 2023 – November 2024*
Cambridge International General Certificate of Secondary Education (CAIE)

- **Grades:** 4 A* & 1 A — Computer Science (A*), ICT (A*), Mathematics (A*), Physics (A*), Additional Mathematics (A)

PROJECTS

BusGuard — *Singapore BusTech Grand Challenge 2026 · Top 5 finalist* *June – October 2026*

- Passenger-assistance system for driverless buses, built by a team of five; led networking and system integration.
- Streamed a Bosch IP camera over RTSP to the operator console, and linked the camera AI, passenger app, push buttons and 3D digital twin with MQTT on an offline private network.
- Designed fail-safe handling for frozen video and duplicate messages, so the bus waits instead of guessing.

Multi-Site Company Network — *Computer Networking · Individual work* *August 2026*

- Designed a VLSM address plan from a single /24, with every office sized for 100% growth.
- Configured 7 Cisco routers in Packet Tracer: multi-area OSPF (3 areas), DR/BDR priorities, custom hello/dead timers, and static and default routes to the ISP.
- Added a backup border router, HSRP gateway failover and an extended-ACL firewall; verified 0% packet loss with the main border router powered off.

Windows Server Domain — *Server Management · Team of four* *July 2026*

- Built the file, storage and web server (DC2) in a Windows Server 2025 Active Directory domain on VMware.
- Set up RAID-5 storage, department shares with NTFS permissions, Group Policy drive maps, FSRM quotas and file screens, and a PowerShell script that creates private home folders at first login.
- Hosted HTTPS sites on IIS with AD CS certificates (fixed browser certificate errors by adding the SAN with certreq) and deployed Work Folders file sync for remote staff.

Proxmox Homelab — *Personal project* *Ongoing*

- Self-hosted Proxmox VE 9.2 on a mini PC, with remote access over Tailscale (no ports opened to the internet) and an isolated security lab for practising safely.

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA) — In progress
- Red Hat Certified System Administrator (RHCSA) — In progress

TECHNICAL SKILLS

Cloud & virtualisation: Proxmox VE, LXC, VMware, AWS, Tailscale
Linux: Ubuntu / Debian, Bash scripting, SSH & key authentication, systemd
Windows: Windows Server, Active Directory, Group Policy, PowerShell, IIS, AD CS (PKI), FSRM, RAID
Networking: TCP/IP, VLSM subnetting, OSPF, HSRP, ACLs, VLANs, DNS / DHCP, Cisco IOS, MQTT, RTSP
Tools & languages: Python, Git, Cisco Packet Tracer

WORK EXPERIENCE

Banquet Captain *April 2025 – Present*
The St. Regis Singapore

- Serve at weddings, galas and corporate events of up to 300 guests in a luxury hotel environment.
- Handle guest requests and last-minute changes under time pressure while keeping service on schedule.
- Coordinate with colleagues to set up and run large-scale functions smoothly.