

CHAN QING YEE

Network and Security Engineer

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SUMMARY

Computer Science graduate in Computer Network and Security (Universiti Teknologi Malaysia, **CGPA 3.90**, July 2026) with hands-on experience deploying and securing enterprise networks. Supported Huawei's U Mobile 5G network upgrade across 100+ subcontractor teams and architected a 26-control Zero-Trust security layer for a production platform, earning a **DIGITEX 2026 Silver Medal**. Completed the **Cisco CCNA curriculum** across Switching, Routing and Wireless Essentials; Enterprise Networking, Security and Automation; and DevNet Associate. Malaysian citizen, based in Johor Bahru and open to relocation to Singapore.

TECHNICAL SKILLS

Networking and Security: OSPF, VLANs, Access Control Lists (ACLs), Firewalls, VPN, DHCP, Zero-Trust Architecture, Wireshark, network protocol analysis, TCP/IP, subnetting and IP addressing

Cloud and Infrastructure: Oracle Cloud Infrastructure (OCI), Linux, DigitalOcean, Nginx, TLS/SSL certificates, PM2

Programming and Scripting: Python (Selenium, Pandas), PowerShell, JavaScript (Node.js), SQL, C++, Java

Tools: Cisco Packet Tracer, Git, GitHub

PROFESSIONAL EXPERIENCE

Huawei Technologies (Malaysia) Sdn. Bhd. – Project Engineer Intern Sep 2025 – Feb 2026

- Coordinated daily deployment operations for the U Mobile 5G Network Upgrade (**RAN and Microwave**) across Northern and Southern Malaysia, tracking **100+ subcontractor teams** and coordinating between Huawei, subcontractors, and the client to resolve operational bottlenecks
- Developed and deployed **5 process automation tools** using Python (Selenium, Pandas) and PowerShell, reducing daily reporting time from 15 minutes to under 1 minute (**93% reduction**)
- Managed the official site handover process, overseeing submission of **1,000+ site acceptance deliverables**, including User Acceptance Test (UAT) and Launch Completion Report (LCR) documents, to the client

PROJECTS

SecureExam – Zero-Trust Secure Online Examination System (Final Year Project) **DIGITEX 2026 Silver Medal**

- Architected a Zero-Trust security layer with **26 mapped controls** across **35 API endpoints**, enforcing per-request IP binding, JSON Web Token (JWT) stage-machine Multi-Factor Authentication (MFA), and step-up re-authentication
- Deployed to production on DigitalOcean (Singapore region) with **SSH hardening**, Nginx reverse proxy, **TLS/SSL certificates**, and PM2 process management
- Implemented **real-time security monitoring** with automated out-of-band lecturer alerts, cron-based session sweeping, and score-nullification flagging

Enterprise Network Solution – Sunray Construction and Interior Sdn Bhd

- Designed and configured a segmented enterprise network in Cisco Packet Tracer, implementing **VLAN segmentation** with inter-VLAN routing, **OSPF dynamic routing**, and DHCP address allocation across departmental subnets
- Hardened the design with **ACL-based traffic filtering**, **firewall policies**, and **VPN tunnel configuration**, then verified connectivity and access restrictions through simulated end-to-end traffic testing

DuoDrop – Encrypted Peer-to-Peer File Transfer (Personal Project)

- Built a WebRTC peer-to-peer file transfer Progressive Web App (PWA) with **end-to-end encryption** (XChaCha20-Poly1305 via libsodium); the signaling server brokers the handshake only and never accesses file contents

ACHIEVEMENTS

- DIGITEX 2026 Silver Medal**, Grand Finale (Johor Bahru, June 2026) for SecureExam UTM
- UTM Hackathon Champion 2025** – DevBoost AI, an emotion-sensing AI onboarding platform
- UM Hackathon Finalist 2025** – ZakatGo, a blockchain-integrated automated payment platform

EDUCATION

Universiti Teknologi Malaysia, Johor Bahru

Oct 2022 – Jul 2026

Bachelor of Computer Science (Computer Network and Security) with Honours | CGPA: 3.90 / 4.00

CERTIFICATIONS

Cisco Networking Academy – CCNA curriculum: Enterprise Networking, Security and Automation | Switching, Routing and Wireless Essentials | DevNet Associate | Google Cybersecurity Professional Certificate | Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

LANGUAGES

Mandarin (Native) | English (Fluent) | Malay (Fluent)