



VÕ MẠNH CƯỜNG

Network & Security Engineering Student

Ho Chi Minh City, VietNam

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Skills

Networking:

TCP/IP, OSI Model, VLAN, VTP, EtherChannel (LACP), STP/RSTP, OSPF, EIGRP, BGP (basics), WLAN (WLC, 802.1X), IPsec VPN, GRE Tunnel, IPv4/IPv6, DHCP, DNS, NAT

Security:

AES-GCM, RSA, PBKDF2, WPA2-Enterprise, RADIUS, NAC, HSTS, CSP, Rate Limiting, Network Hardening

Systems:

Windows Server 2022 (WDS, PXE), VMware, EVE-NG, Cisco Packet Tracer, Docker, Redis

Programming:

Basic Go, Python, Java, Bash/PowerShell, REST API Design, FastAPI

Tools:

Git, GitHub, Cisco IOS, Streamlit, Hugo, Vercel

Others:

Vibe Coding, Codex, Antigravity, Spec writing

PROFESSIONAL SUMMARY

Detail-oriented final-year Computer Networks student (GPA 8.4/10) with hands-on experience designing secure enterprise network architectures and building security-hardened applications. Proficient in Cisco IOS, VLAN/OSPF/IPsec infrastructure, and automation scripting in Go/Python. Seeking an entry-level Network Engineer or Security Operations role to apply zero-trust principles and infrastructure automation.

EXPERIENCES

ADMIN INTERN

Nov 2025 – Jan 2026 | Back Office Eteacher, Ho Chi Minh City, Vietnam

- Managed IAM and 2FA enforcement across SaaS platforms (Google Workspace, Facebook Business Manager), implementing least-privilege access and periodic credential audits.
- Automated back-office workflows using Google AppSheet and Zapier, eliminating manual processes and improving operational efficiency.

PROJECTS

Enterprise Network Design – Wired & Wireless Infrastructure

[Cisco Packet Tracer / EVE-NG / VMware]

- Designed and simulated a multi-site enterprise network with Layer 2/3 switching, implementing VLAN segmentation, VTP, EtherChannel (LACP), and Rapid PVST+ for link redundancy.
- Deployed centralized WLAN with Wireless LAN Controller (WLC) and WPA2 Enterprise (802.1X) authentication backed by a RADIUS server.
- Established secure inter-branch WAN connectivity via IPsec VPN (ESP/AES-256) over GRE tunnels.
- Configured dual-stack IPv4/IPv6 routing with OSPF and static routes for inter-VLAN communication.

Secret Letter – Zero-Knowledge Secret Sharing Platform

[Go / React / TypeScript / Redis / Web Crypto API]

- Architected a zero-trust secret-sharing app where encryption keys never leave the client; server cannot decrypt content even if compromised.
- Built Go backend (stdlib) handling 100+ req/s at P95 < 100ms using Redis with TTL expiration and atomic GETDEL to prevent race conditions.
- Developed React 19 + TypeScript frontend using native Web Crypto API for in-browser AES-GCM 256-bit encryption/decryption.
- Hardened with per-IP rate limiting, HSTS/CSP security headers, structured error handling, and privacy-preserving log hashing (IP/UA hashed).
- Achieved 81.5% API test coverage with integration tests and load-testing scripts.

E2EE Web Chat – End-to-End Encrypted Messaging



[Cisco Packet Tracer / EVE-NG / VMware]

- Implemented zero-knowledge messaging using RSA-2048, AES-256-GCM, and PBKDF2 via Web Cryptography API for browser-native encryption.
- Built FastAPI backend to manage public-key infrastructure and orchestrate encrypted payloads for individual and group conversations.
- Ensured E2EE guarantees with keys generated and stored exclusively on client devices.

Windows Deployment Service (WDS) Automation



[Windows Server 2022 / VMware / PXE]

- Deployed Windows Deployment Services on Windows Server 2022 to automate OS provisioning across LAN via PXE boot.
- Configured DHCP scope options, boot images, and unattended installation files, eliminating manual setup (~45 min → fully unattended).
- Virtualized the entire lab environment on VMware Workstation for repeatable testing.

Sentiment Analysis Dashboard



[Python / BERT / Logistic Regression / Streamlit]

- Built an interactive Streamlit dashboard integrating Reddit API for real-time social media data collection and sentiment classification.
- Implemented a hybrid ML pipeline: BERT for contextual feature extraction and Logistic Regression for optimized text classification.

EDUCATION

Ton Duc Thang University – B.S. in Computer Networks and Data Communications

Oct 2022 – Expected September 2026 | Ho Chi Minh City, Vietnam

- **GPA: 8.4/10**
- **Relevant Coursework:** Advanced Computer Networks (8.7), Network Design (9.2), Digital Forensics (9.3), Wireless & Mobile Security (9.6), Big Data Processing (8.6), Natural Language Processing (9.0)
- **Honors:** Academic Encouragement Scholarship (2023–2024); Gold Board of Academic & Training Excellence (2022–2023)
- **Certifications:** CCNA (In Progress – Expected 2026)
- **English:** PET Cambridge

AWARDS & ACHIEVEMENTS

- Academic Encouragement Scholarship – Semester 1, 2023–2024
- Gold Board of Academic & Training Excellence – Academic Year 2022–2023
- Third Prize, Youth Informatics Contest (Non-Professional Division) – 2019