Personal Resume

- Name: Chun-Hsing Lu
- Contact: phycomp@mail.com 0908-656-365
- Education: Master's in Physics and Computational Simulation
- Professional Field: Ophthalmic Medical Data Processing and Platform Development National Taiwan University | Institute of Physics
- September 2005 - June 2007
- Thesis: "Scientific Concept Analysis System Based on Image Learning"

Senior Network Engineer

With over 10 years of experience in configuring multi-vendor network equipment, specializing in the deployment and maintenance of Cisco routers, switches, and firewalls. Proficient in integrating equipment from vendors such as HP and D-Link, dedicated to providing efficient and secure network architecture solutions. Those skilled incorporated as listed:

Programming and Development:

- Proficient in Python, PostgreSQL, JavaScript, HTML5/CSS3, focusing on front-end and back-end development for medical applications.
- Expert in PostgreSQL database design, capable of effectively managing ophthalmic patient data.

Medical Data Processing and Analysis:

- Familiar with DICOM standards, specializing in the processing and analysis of medical imaging data.
- Able to structure and visualize patient data such as vision, intraocular pressure, and fundus images.

Platform Architecture:

- Experienced with cloud services, using VMs for development and Docker for deploying medical platforms.
- Capable of designing high-performance patient history display interfaces, combining charts and text.

Data Security and Compliance:

- Familiar with medical data protection regulations such as **HIPAA**.
- Utilizes **AES** encryption technology to ensure patient data security.

Ophthalmic Medical Platform Developer Health Medical Technology Co., Ltd. 2018 - Present

- **Visual Reports:** Using frameworks like pydicom, streamlit, and solara to provide doctors and patients with clear and understandable visual data.
- Collaborated with **ophthalmologists** to optimize data input and retrieval functions, improving usage efficiency by 30%.

Network Engineer Comtrend Systems Integration Company | New Taipei City June 2016 - December 2018(3 Years)

- Deployed small and medium-sized enterprise networks: Configured Cisco ISR 1900 series routers and HP ProCurve 2520 switches, implementing VLAN segmentation and traffic control.
- Provided customers with **D-Link wireless AP (DAP-2690) deployment and centralized management** (D-View 7).
- Migrated core network from **Cisco Catalyst 6509 to Nexus 9500**, increasing throughput by 40%.
- Configured **HP Aruba 5406R switches** for cross-data center link redundancy (LACP+VRRP).
- Integrated **Cisco ASA firewalls** with D-Link DGS-3627 switches, establishing role-based access control (RBAC).
- Python scripts used to **automate ACL** rule generation, reducing manual configuration time by 50%.
- **Grid System Management**: Installed and configured high-performance computing and scientific computing grid systems.

Software Development Engineer | NCHC National Center for High-Performance Computing 2006 - 2012 (6 years)

- **Network Equipment Configuration**
    - Proficient in Cisco IOS/NX-OS: Configuring routers (ISR/ASR series), switches (Catalyst/Nexus series), and firewalls (ASA/Firepower).
    - Familiar with HP network equipment (ProCurve/Aruba series) for VLAN, link aggregation, and STP configuration.
    - Experienced in deploying and managing D-Link switches (xStack/DGS series).
- **Network Security**
    - Firewall policy configuration (Cisco ASA/Firepower, FortiGate).
    - Vulnerability assessment and protection, IDS/IPS deployment experience.
- **Network Monitoring and Tools**
    - Wireshark traffic analysis, SolarWinds NPM, PRTG monitoring tools.
    - Automated scripts (Python/Ansible) to simplify bulk device configuration.
- **Multi-Vendor Integration Experience**
    - Mixed environment deployment: Configuring interoperability between Cisco and HP switches.
    - Deploying D-Link equipment in the access layer of small and medium-sized enterprise networks.

NTU-HEP National Taiwan University High-Energy Physics Research Team 2002 - 2006 (4 years)

•Managed enterprise-level network architecture (500+ nodes), responsible for configuring and maintaining Cisco core switches (**Nexus 9500**) and HP edge switches (**Aruba 2930M**).

•Led firewall migration project: Upgraded from **Cisco ASA 5515-X to Firepower 2110**, optimizing security policies and reducing false positives by 30%.

•Resolved cross-vendor compatibility issues, successfully integrating **D-Link DGS-1510** series switches into the existing Cisco network environment.

System Integration Engineer LEO Systems Company (Subsidiary of FIC Group) 1998 - 2002 (4 years)

- **System Compatibility and Performance Testing:** Used PCMark and 3DMark to test server and GPU load performance.
- **Wintel and Lintel System Compatibility:** Optimized server stability on Windows/Linux platforms, familiar with various Linux distributions (e.g., RedHat, CentOS, Mandrake).
- **High-Performance Storage and Backup Strategies:** Managed RAID controllers, designed full, differential, incremental, and remote backup strategies to ensure data integrity.
- **Network Management and Monitoring:** Used PySNMP and net-snmp for device configuration retrieval and modification, familiar with SNMP protocol.