

Chia-An Lee

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EDUCATION

National Yang Ming Chiao Tung University

Sep. 2019 – Jul. 2021

Master of Science in Computer Science

Hsinchu, Taiwan

- Advisor: Jyh-Cheng Chen @ Wireless Internet Research and Engineering Laboratory
- Research focuses on 5G core network. Develop and maintain free5GC project.

National Chiao Tung University

Sep. 2015 – Jun. 2019

Bachelor of Science in Computer Science

Hsinchu, Taiwan

- Coursework: Computer Network, Operating System, System & Network Administration, Computer Security

RESEARCH & WORK EXPERIENCE

Production Engineer

Oct. 2022 – Now

Meta

London, GB

- Implement a monitor script on deletion scheduler.
- Impacted by non-performance layoff.

Lab Server and Network manager

Jan. 2020 – Jan. 2021

Wireless Internet Research and Engineering Laboratory

Hsinchu, Taiwan

- Provided services such as NFS, Samba, Wireguard VPN, NAT, Discourse forum, VM platform, and so on.
- Managed the server and network in lab. Including 6 servers (3 Proxmox, 1 VMWare, 1 Storage, 1 bare Linux), 2 Juniper switches, 10G switch, IP KVM, UPS, Aruba AP, and so on.

Team Lead (Network Team)

Feb. 2018 – Sep. 2019

Computer Center, Department of Computer Science, National Chiao Tung University

Hsinchu, Taiwan

- Led the network team to host all the networking of our department (1000+ users). Including service intra-net design and deployment, 3-layer network architecture, static and dynamic routing, IPv6, network high availability, and VPN networking.
- Led our team to deploy monitoring and alarming systems for network and service via Nagios, Cacti, and LibreNMS.
- Hosted the co-location center for our department. Including once center rebuild and server migration.

Part-Time (Linux Team, PC Team)

Feb. 2018 – Sep. 2019

Computer Center, Department of Computer Science, National Chiao Tung University

Hsinchu, Taiwan

- Managed Linux workstations. Routine jobs include package updating, LDAP usage, log watching, abnormal user behavior checking, etc.
- Managed Windows PC. Deploy OS via Clonezilla and application via Ansible. Fixed hardware issues.

Intern (Container Platform)

Jul. 2018 – Dec. 2018

National Center for High-Performance Computing

Hsinchu, Taiwan

- Proposed a lightweight resource dispatching system base on Docker container and NVIDIA GPU. Made the AI PaaS provided by NCHC more flexible and scalable.
- Published “Implementation of lightweight GPU cloud computing AI platform”, *TANET 2018*

Intern (Blockchain)

Jul. 2017 – Dec. 2017

National Center for High-Performance Computing

Hsinchu, Taiwan

- Maintained a private Ethereum chain inside NCHC and testing smart contract on it.

Teaching Assistant

National Chiao Tung University

Hsinchu, Taiwan

- Wireless Networks by Perf. Jyh-Cheng Chen
- Network Planning and Management Practices by Prof. Jeng-Yueng Chen
- Network Administration Practice by Perf. Yu-Sung Wu
- Scratch and Python programing by Prof. Min-Zheng Shieh

EDUCATIONAL PROJECT & AWARDS

Project free5GC

Jan. 2019 – Jul. 2021

An open-source 5G core network

- Developed the first open-source 5G core network project.
- Focused on the user plane function (UPF). Implemented the N4 interface to receive rules from session management function (SMF) and add rules into user plane data forwarding process.
- Co-author of “*L²5GC: a low latency 5G core network based on high-performance NFV platforms*”, *ACM SIGCOMM 2022*

NCTU CSCC Intranet Infrastructure

Jan. 2018 – Jan. 2019

Intranet design and implementation

- Redesigned and deployed the service network of CSCC with an intranet infrastructure architecture. Including 2-layer network architecture, NAT, firewall, DMZ, HA, and so on.
- Made the new network non-wasted on public IP resources, flexible, scalable, and more secure.

Awards

- ACM ICPC 2017 Asia Hua-Lien Regional Contest, Sep. 2017 Silver Medal
- ACM ICPC 2017 Asia Jakarta Regional Contest, Nov. 2017 Honorable Mention
- National Collegiate Programming Contest, Sep. 2017 14th Place

SKILLS

Programming Languages C, C++ (proficient), Go, Python, Shell Script(prior experience)

Professional Skills Linux, Cisco, Juniper, IPv6, VPN, firewall, 5G, NFS, Docker, OS, Git, L^AT_EX