Wang YaoHui (Eri)

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Profiles

in YaoHui Wang

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Skills

Systems & Networking
Linux (Ubuntu Server), Windows Server, Cloudflare Tunnels, DNS/Pi-hole, Cisco IOS Commands, VPN, VLANs, Firewall Configuration

Cloud Services & Virtualization
Amazon Web Services (AWS), VMware

Programming & Database
Python, SQL/NoSQL, PHP, HTML/CSS/JS, Figma (UI/UX)

Education

Nanyang Polytechnic
Diploma in Infocomm and Media Engineering (Specialization in Cloud Infrastructure and Services)
4.0 CGPA (as of Y2S1)
2024 – Present

- Admitted to Director's List for 3 Consecutive Semesters.
- Distinction in Data Communication & Networking, System Administration, and IoT System Development modules.
- Showcased projects during End Semester Showcase (Digital Media and Design, Object Oriented Programming, Cybersecurity Essentials).

Experience

FOSSASIA
Speaker
2021

Conducted a workshop on Introduction to Python during FOSSASIA Summit 2021.

BuildingBloCS
Head of Logistics / Webmaster
2020 – 2021
🔗 https://buildingblocs.sg/

Part of the organizing team, responsible for the distribution of gifts and managing logistical needs. Maintained the GitHub code base and updated the organization's website.

Summary

Highly motivated Second-Year Nanyang Polytechnic student specializing in Cloud Infrastructure and Services. Passionate about System Administration and Network Security. Proven hands-on experience in Linux Server Hardening, Secure Edge Networking (Cloudflare), and Infrastructure Management. Dedicated to applying strong technical skills in system defense and scalability.

Projects

Linux Server Hardening   2025

- Developed visual documentation (Technical Poster & Presentation) detailing standard operating procedures for securing Linux environments against common network vectors.
- Service Auditing: Reduced attack surface by identifying and disabling unnecessary system services and daemons to minimize potential vulnerabilities.
- Network Defense: Configured a host-based firewall (UFW) to deny all incoming traffic by default and strictly allow only essential ports.
- Access Control: Hardened SSH security by disabling direct root login, enforcing protocol version 2, and implementing strict user authentication policies.
- File Integrity: Enforced the Principle of Least Privilege by configuring rigorous file system permissions on critical configuration files to prevent unauthorized tampering.
- Audit & Logging: Implemented NTP time synchronization to ensure accurate log timestamps, essential for effective security auditing and forensic analysis.

Raspberry Pi Home Server Setup   2025

- Engineered a dedicated home lab server on Raspberry Pi (Ubuntu Server), orchestrating critical network services including DNS (Pi-hole) and IoT automation (Home Assistant).
- Implemented secure, public-facing access using Cloudflare Zero Trust Tunnels, providing edge networking security without exposing firewall ports.
- Utilized Docker and Docker Compose to deploy and manage services simultaneously for resource isolation.
- Configured a custom DNS sinkhole (Pi-Hole) for network-level ad-blocking and traffic visibility, optimizing security and performance.
- Optimized system architecture by migrating static web workloads to Cloudflare Pages, reducing local server load and leveraging edge caching.

Full-Stack Concert Booking Web Application   2025

- Developed a fully functional concert booking system using a PHP/MySQL stack, selected for the Diploma End Semester Showcase.
- Designed and managed the relational database schema, demonstrating proficiency in data integrity and CRUD operations.
- Managed the application logic (Back-end) and ensured responsive design across mobile, tablet, and desktop layouts (Front-end).

Awards & Achievements

ISC2xSIM Cyber Cafe — Cybersecurity Workshop & CTF Participant   Aug 2025
🔗 https://badges.parchment.au/public/assertions/gH0N51SGTMOKCTJunNP2kA

Participated in a hands-on Capture the Flag (CTF) challenge, applying practical cybersecurity techniques, and engaged with industry professionals on career development in network security.

Finalist at SCSE Computing Challenge 2021   Dec 2020
🔗 https://www.ntu.edu.sg/computing/news-events/events/detail/2020/12/11/default-calendar/s...

Developed a captcha product based on handwritten mathematical equations, gaining insight into computational thinking, machine learning, and cloud environments (AWS).