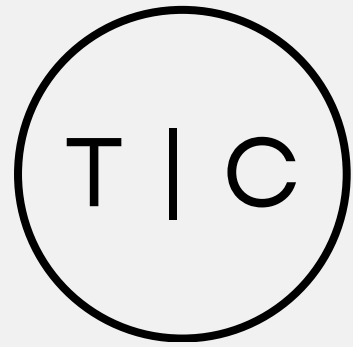


Tsunghao CHEN

Software Engineer



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SKILLS

- Problem Solving
- Project Management
- Systems Design
- Quality Assurance
- Team Collaboration
- Self-directed Learning

TECH SKILLS

- C/C++
- Unix/Linux
- Version Control (Git)
- Web Development (Python)
- DevOps Tools (Docker, ELK)
- Grafana, Prometheus
- System Programming

EDUCATION

École 42

Computer Science
February 2024 - Present

National Taiwan University

Bachelor of Science in Physics
Graduation: January 2015

LANGUAGES

- English Proficient
- French Basic
- Mandarin Native

PROFILE

Computer Science student at École 42 with strong foundations in software development and hardware engineering. Leveraging physics background to drive analytical problem-solving in full-stack development and DevOps. Completed École 42's rigorous curriculum, building complex systems from HTTP servers to real-time web applications.

PROJECTS

Transcendence

42 School Final Capstone Project: Full-Stack Pong-Game Platform

- Built containerized multiplayer platform with real-time gameplay, authentication, and chat features
- Implemented WebSocket-based game synchronization using Django Channels and Redis pub/sub
- Deployed zero-trust security with HashiCorp Vault, ModSecurity WAF, and SSL/TLS encryption
- Integrated ELK Stack and Prometheus/Grafana for comprehensive system monitoring
- Technologies: Django REST, PostgreSQL, Redis, Docker, Nginx, ELK Stack, Prometheus, Grafana, Vault, ModSecurity

Web Server

42 School Systems Programming Project: C++ HTTP/1.1 Web Server

- Developed high-performance web server with non-blocking I/O and CGI support matching Nginx functionality
- Established automated CI/CD pipeline with GitHub Actions using HURL for HTTP-based integration testing
- Technologies: C++, Socket Programming, POSIX, CGI, GitHub Actions, GitFlow

WORK EXPERIENCE

Engineering Project Manager

FLEXium Interconnect Inc. | July 2018 – October 2023

- Led 12-person development teams in flexible PCB manufacturing, implementing systematic testing methods for New Product Introduction (NPI) that improves yield metrics by 30%
- Optimised product development workflows in NPI sampling processes, reducing design-to-production cycles by 2 weeks through improved workflow automation and documentation
- Coordinated with global tech clients to define requirements and validate prototypes, resulting in 7 successful implementations in wearable devices and 3 new business opportunities