

# EASON CHIU

SOFTWARE DEVELOPER

(Junior college student)

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## SUMMARY

CS Student specializing in Cloud-Native & Distributed Systems.

Experience includes orchestrating Kubernetes clusters for ML workflows and building secure, observable gRPC microservices.

## PROFESSIONAL EXPERIENCE

### BT&D<sup>2</sup>(Laboratory on Campus)

Part-time Assistant | March 2024 - Jan 2025

- Orchestrated a **Kubernetes**-based infrastructure using **Traefik** as an ingress controller and NFS provisioning, reducing deployment time for lab services from a month to a week.
- Architected a chemistry analysis workflow scheduler, allowing researchers to queue ML jobs across 8 nodes, increasing resource utilization and avoiding human interference.
- Maintained **CI/CD** pipelines using Gitea Actions to automate testing of internal research tools.

## PROJECT

### Solar panel monitoring system

- Contributed to real-time dashboard backend using **Python** and **FastAPI**, tracking production from 16 solar plants averaging **600+ kWh/day**.
- Designed and deployed email notification pipeline for issue detection, integrating sensor data for instant operator alerts and 24/7 reliability.

### TSMC CareerHack - 3rd place Financial Assistant

Developed an LLM-powered financial assistant with **SQL** that analyzes market data to recommend actions.

### gRPC(gRPC-web) services for a contest-management website

- Designed a high-performance contest platform using **gRPC** for communication between services.
- Engineered a secure sandbox capable of executing untrusted user-submitted code inside containers (nested).
- Implemented **observability** using OpenTelemetry to trace requests and visualize system metrics.

### Web-based chat application for resource-constrained device

- Developed a highly efficient full-stack LLM platform, securing over **200 downloads** within the open-source community.
- Engineered **deep-research agent** with autonomous web agents for out-of-the-box complex analysis capabilities.

## LEADERSHIP & COMMUNITY

### Campus Computer & Network Society(CCNS)

President of the club | Aug 2025 - Present

- Introduced a technical book club focusing on Rust, facilitating **6 deep-dive study sessions**.
- Organized 7 technical workshops covering topics such as networking in Linux and Docker to enhance student engagement.

### Mingdao High School Programming Project

Lecturer | Sep 2022 - Jun 2023

- Delivered competitive programming training to over **100 students**, focusing on algorithmic problem-solving and helping participants achieve improved contest performance.
- Developed and **launched** a project-based course on end-to-end web application design and deployment, attracting over 20 students in its inaugural year.

## EDUCATION

### Computer Science & Information Engineering

National Cheng Kung University | Sep 2023 - Jun 2027