

## EDUCATION

### Computer Science & Information Engineering

National Cheng Kung University | Sep 2023 - Jun 2027

## 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, increasing 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

### TSMC CareerHack - 3rd place Financial Assistant SQL Python Kubernetes

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

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

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

### Web-base chat application for resource-constrained device Rust SvelteKit

- 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.

### ML Job Scheduler Yunikorn Kubernetes

Integrated Apache YuniKorn to manage batch scheduling for 5 concurrent chemistry ML workflows, increasing resource utilization and avoiding human interference.

### Bus recommendation system TypeScript Deno Rust

Integrated Google Maps API with real-time bus data to recommend optimal bus to choose, considering air quality and occupancy with sensors.

## 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 **100+ students**, focusing on algorithmic problem-solving and helping participants achieve improved contest performance.
- Designed course structure for project-oriented course.