

# EASON CHIU

SOFTWARE DEVELOPER  
(BS in Computer Science)

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## EDUCATION

### Computer Science & Information Engineering

National Cheng Kung University | Sep 2023 - Jun 2027

## WORK EXPERIENCE

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

Part-time Assistant | March 2024 - Jan 2025

- Increased cluster resource utilization by architecting a chemistry analysis workflow scheduler, enabling parallel execution of ML jobs across 8 nodes without human intervention.
- Reduced service deployment time by architecting a **Kubernetes** infrastructure with NFS/traefik.
- Automate testing of internal tools with Gitea Actions **CI/CD** pipelines.

## PROJECT

### Solar panel monitoring system

- Contributed to real-time dashboard backend using **Python** and **FastAPI**, tracking production from 16 solar plants.
- Designed and deployed email notification pipeline for issue detection, integrating sensor data for instant alerts.

### Financial Assistant - 3rd place on TSMC CareerHack

- Architected a serverless query engine using **DuckDB** to query financial data directly from Google Cloud Storage.
- Engineered a SQL security layer using sqlglot to parse and sanitize LLM-generated queries, enforcing RBAC.

### Web-based LLM platform for resource-constrained device

- Developed a highly efficient LLM platform in **Rust**, securing over **200** container image downloads.
- Engineered **deep-research agent** with autonomous web agents for out-of-the-box complex analysis capabilities.
- Established a complete development lifecycle, including comprehensive documentation and automated release builds.

### gRPC services for a contest-management website

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

## 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 Linux networking and Docker to enhance student engagement.

### Mingdao High School Programming Project

Lecturer | Sep 2022 - Jun 2023

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

## TECHNICAL SKILLS

- Languages: C++, Rust, JavaScript/TypeScript, Go, Python, SQL
- Cloud & DevOps: Kubernetes, Docker, Google Cloud Platform (GCP), gRPC, OpenTelemetry