Zhong-Zhong Huang

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EDUCATION

National Chengchi University (NCCU)

B.S. in Computer Science   *Sep 2021 – Jan 2026 (Expected*)

- Relevant Coursework: Distributed Systems; Cloud-Native System Development & Operations; Operating Systems; Database Systems; Computer Networks; Data Structures & Algorithms; Object-Oriented Programming; Computer Structure and Organization

WORK EXPERIENCE

Part-time Assistant | NCCU Maker Space   *Jul 2023 – Oct 2025*

- Supported daily operations and provided hands-on training for maker equipment (laser cutting, heat press, and 3D printing).
- Assisted in running workshops by preparing equipment, guiding participants, and troubleshooting issues during sessions.
- Helped maintain booking workflows (Google Calendar coordination) and created onboarding materials, including short tutorial videos.

PROJECTS

Carbon Manager — Carbon Footprint Tracking Platform (Capstone Project)

| React/TypeScript, Flask, Database Design

- Built a full-stack prototype for managing carbon footprint records, including a web UI, REST APIs, and relational schema design.
- Implemented core CRUD and end-to-end flows, validating integration across frontend, backend, and database.

Microservices + etcd 3-node cluster (Course Project)

| Python (Flask), PostgreSQL, etcd, Docker

- Deployed multiple Flask microservices with PostgreSQL using Docker Compose and a dedicated service network.
- Implemented service registration and centralized configuration via an etcd 3-node cluster, including watch-based updates; improved reliability with health checks and dependency ordering.

Mixed Han Character Translation (Course Project)

| Prompting, Fine-tuning, Evaluation

- Built and tested a dictionary-assisted translation workflow for Chinese/Japanese/Taiwanese code-mixed text.
- Reduced incorrect dictionary replacements using negative samples and evaluated outputs with sentence-embedding similarity.

CI Automation Demo — Resume Website

| GitHub Actions, JavaScript, Bash

- Built a resume website and set up a lightweight CI workflow in GitHub Actions.
- Automated lint/build checks on each push to keep the project deploy-ready.

ADDITIONAL EXPERIENCE

Project Assistant
| Taiwan United University System Collaboration Program (NCCU Office)   *Mar 2025 – Aug 2025*

Project Assistant
| "Inclusive Wenshan Community Co-creation" Program
— College of Social Sciences, NCCU   *Aug 2025 – Oct 2025*

LEADERSHIP & ACTIVITIES

General Coordinator (Camp Director) | NCCU Computer Science Camp   *Jul 2024*
- Led end-to-end planning and on-site operations for a multi-day student camp, coordinating staff roles, schedule, and logistics.
- Managed cross-team communication and handled real-time issues to ensure smooth delivery.

Member | Google Developer Student Clubs (GDSC), NCCU   *Sep 2022 – Jan 2023*
Member | Magic Club, NCCU   *Sep 2022 – Jan 2023*

SKILLS

- **Languages:** Python, JavaScript/TypeScript, Bash/Shell, HTML/CSS, C/C++
- **Tools:** Git, Linux, Docker
- **Backend/Infra:** Flask, PostgreSQL, etcd, Docker Compose, Kubernetes (K3s), k6
- **Frontend:** React, Vite, styled-components