

Zhe-You Liu

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EDUCATION

National Cheng Kung University

Tainan , TW

Bachelor of Computer Science and Information Engineering

Expected June 2026

- TSMC Hackathon - IT Infra Automation Monitoring using GenAI 2024 : Second Place
- ICPC Asia Taiwan Regional Programming Contest 2023 : Bronze Medal
- National Collegiate Programming Contest 2023 & 2022 : Merit Award

OPEN SOURCE CONTRIBUTIONS

Apache Airflow | Committer

October 2024 - Present

A data orchestration tool with over 40k stars on GitHub, used by more than 80,000 companies.

- Invited as [Apache Airflow Committer](#) in 5 month during semester.
- [Contributed 100+ PRs](#) and [reviewed 200+](#) with feedback in the past year.
- Resolved OOM issue when reading logs in the webserver, reducing memory usage by 10x.
- Refactored the parameter system and database exception handling for the core API, benefiting over 50 endpoints.

LFX Mentorship – CNCF Krkn | Mentee

May 2025 – Present

Krkn is a CNCF sandbox project focused on chaos and resiliency testing, with 300+ stars.

- Selected as a mentee for [LFX Mentorship](#); collaborating with Red Hat engineers to develop the feature.
- Designed a robust [proposal](#) for a [rollback scenarios feature](#), which received positive feedback from the team.

EXPERIENCE

Appier | Backend Intern at Data Platform Department

July 2024 – Present

Distributed System, Data Ingestion, Airflow, Databricks, Kubernetes, Terraform

Hybrid Working

- Built a centralized config onboarding service with Airflow, powering pipelines across 6 core features.
- Refactored a data ingestion API from Flask to FastAPI, migrating 50K+ lines from Hive to Delta Lake.
- Created an integration testing framework with auto API docs, cutting dev time by over 50%.
- Developed a shared API client generator for internal metadata API used by 5+ services.
- Developed an operations dashboard integrated with OAuth, RBAC and k8s API, supporting usage across 5 teams.

PAIA | Part-time Backend

December 2023 – July 2024

Django, PostgreSQL, Redis, Docker, Pytest, Performance Profiling

Hybrid Working

- Fix the Redis anti-pattern for calculating 'today_login_count' and speed it up over 300 times.
- Developing new features and refactoring with Test-Driven Development.

GLSoft | Part-time Software Engineer

April 2023 – March 2024

B2B digital transformation company; solution research, building PoC, API testing.

Hybrid Working

COMMUNITY & LEADERSHIP

OpenSource4You apache-airflow | Mentor

March 2025 – Present

[OpenSource4You](#) is a Mandarin-based community actively contributing to large-scale OSS.

- Assist new contributors with onboarding, answering questions, and guidance.

MOPCON(Mobile Open Platform Conference) | Speaker

November 2023

Topic : "Creating an AI training ROS map editor using Three.js, exporting to FBX for use in Unity."

[Youtube link](#)

Wuling Computer Science Club | Director & DSA Lecturer

July 2020 – July 2021

Increasing course engagement by 30% by leading committee members to organize diverse lectures.

TECHNICAL SKILLS

Languages: C, C++, Python, Golang

Frameworks: FastAPI, Flask, Django, Gin, Apache Airflow

Databases: MySQL, PostgreSQL, Redis, SQLite

DevOps Tools: Docker, Kubernetes, Helm, Terraform, GitHub Actions, GCP, Git, Linux

Backend Development: Distributed Systems, Cloud Native, Data Engineering