

Jason(Zhe-You) Liu

jasonliu@apache.org | [GitHub](#) | [LinkedIn](#) | [Blog](#)

SUMMARY

- **Open Source Experience:** [Contributed 100+ PRs](#) and [reviewed 300+](#) with detailed feedback in **Apache Airflow**. Collaborated with engineers from **AWS, GCP, Astronomer**, etc. Invited as [Committer](#) within 5 months.
- **Backend Engineer** with **3+** years of SDLC across **4 companies**, including **Microsoft, Appier**, etc.
- **Conference Speaker** at multiple **international events**, including [ApacheCon NA](#), [Airflow Summit](#), etc.
- **ICPC Asia Taiwan Regional [Bronze Medalist](#)**.

OPEN SOURCE CONTRIBUTIONS

Apache Airflow | Committer

October 2024 - Present

A data orchestration tool with over 40k stars on GitHub, used by more than 70,000 companies.

- [Fixed OOM issue when reading large logs in the API Server](#), **reducing memory usage by 10x**.
- Refactored the parameter system and database exception handling, **benefiting over 50 API endpoints**.
- **Led** and developed the [authentication and authorization system](#) for the core API, enhancing security.
- Fixed [five Kubernetes flaky system tests](#) by adding exponential retries in critical sections, improving CI stability.
- **Initiated** the development for supporting [providers of Event-Driven Scheduling](#), **one of the 3.0 core features**.

LFX Mentorship – CNCF Krkn | Mentee

May 2025 – August 2025

Krkn is a CNCF sandbox project focused on chaos and resiliency testing.

- 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.

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.

Apache CommunityOverCode(ApacheCon) North America 2025, Airflow Summit 2025| Speaker

Topic : "Becoming an Apache Airflow Committer from 0" [\[1\]](#) [\[2\]](#)

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](#)

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