Jason(Zhe-You) Liu

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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 – Present

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