

Guan-Hua Wen

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Summary

Software engineer with experience in backend distributed systems, LLM, agent applications and data pipeline.

Education

National Taiwan University of Science and Technology

Expected June 2027

Bachelor of Computer Science, 3rd Year, GPA: 4.20/4.3, Rank: Top 4%

Experience

Fantasy X Games | Software Engineer Internship

Jun. 2025 – Present

- Decoupled the monolithic transaction merge into a Kafka-based event pipeline with consumer groups, achieving **3x throughput** and resolved out-of-order merge issues.
- Optimized Alert System by resolving N+1 query issue, reducing response time from **30s to 10s**.
- Designed 30+ ETL pipeline with Apache Airflow and ClickHouse, cutting storage requirements by **90%** (**400GB to 40GB**) and eliminating **20 hours/month** of manual preprocessing for the data team.

Kiwis Security | Cyber Security Internship

Mar. 2024 – Jul. 2024

- Utilized PHP, JavaScript, MySQL, and Burp Suite to design web application vulnerabilities. Created attack scenarios to showcase how these vulnerabilities are exploited.

Open Source Contributions

Apache Mahout [GitHub](#)

Jan. 2026 – Present

An machine learning system focused on distributed computation, and emerging quantum data pipelines.

- Optimize GPU amplitude encoding for CUDA tensors in zero-copy, and reducing encoding time by **33%**.
- Extended Mahout's QDP Python and Rust APIs to support float32 GPU pipelines.

Astronomer dag-factory [GitHub](#)

Jun. 2025 – Present

A YAML-based library that generates Apache Airflow DAGs for simplified pipeline configuration and deployment.

- Simplified scheduling by removing deprecated settings, improving compatibility with newer Airflow versions.

Achievements

Google Developer Groups On Campus NTUST | Lead

Jul. 2024 – Jul. 2025

- Served as one of the lead organizers of the [DevJam TW 2025](#), co-planning the GDG on Campus Hackathon.
- Delivered an [AI-Workshop at Google DevFest Taipei 2024](#), using LIT to analyze gemma model in keras.
- Awarded **Best Campus Leader** for outstanding contribution and leadership.

Technologies

Languages: Python, Golang, Rust, TypeScript, JavaScript

Frameworks: PyTorch, CUDA, TensorFlow, Scikit-learn, FastAPI, React, Apache Airflow

Databases: PostgreSQL, MySQL, Redis, ClickHouse, MongoDB

Tools: LangChain, LangGraph, Kubernetes, Kafka, Docker, AWS, Google Cloud, Git (VMS), Linux

Software Development: Distributed Systems, Data Engineering