

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