Allen, Wang

Website: allenwang.it.com | Github: Allenwang2004 | linkedin: www.linkedin.com/in/allenwang2003

Education

Information Management and Finance, B.S.

National Yang Ming Chiao Tung University — Sep 2022 – Present

Relevant Course: Machine Learning/Deep Learning, Software Architecture, Operating Systems, Computer Networks, Artificial Intelligence, System Administration, Generative Information Management, Large Language Model

Work Experience

AIFT — **Remote**
Software Engineer Intern — July 2025 – Now

- Developed backend services in Python for a decentralized prediction market, including market creation, order matching algorithm, oracle updates, and on-chain/off-chain integration.
- Built automated n8n workflows for smart contract vulnerability checks, integrating static analysis tools and alerting pipelines to ensure system security.

Yuanta Securities — **Taipei, Taiwan**
Quantitative Researcher Intern — Feb 2025 – June 2025

- Applied a wide range of machine learning and deep learning models to predict asset returns, including feature engineering, hyperparameter tuning, and model ensemble techniques to improve predictive performance.

Start-up — **Remote**
Backend Developer Intern — Oct 2024 - Jan 2025

- Built RESTful APIs with Flask for an AI-assistant platform powered by LangGraph, including agent orchestration, prompt routing, and tool-integration endpoints.
- Designed and automated execution pipelines using n8n to coordinate data flow, background tasks, and multi-step agent workflows.

Mutual Boost Quantamental — **Taipei, Taiwan**
Dev Intern — Sep 2024 – Nov 2024

- Built an automated stock order-execution bot using the Shioaji API, including real-time order placement, position monitoring, and error-handling mechanisms.
- Designed and deployed a monitoring platform with Grafana to visualize trading metrics, system health, and execution performance.
- Developed automated data workflows for cryptocurrency market data, including ingestion, cleaning, scheduling, and storage to support downstream analytics and strategy research.

Medina Partners — **Taipei, Taiwan**
Quantitative Researcher Intern — June 2024 – Aug 2024

- Engineered and selected alpha signals based on financial datasets; optimized factor combinations using feature engineering.
- Conducted event-driven abnormal return studies on public equities.

Languages

- Mandarin (Native), English (TOEIC 945)

School Project

- **Music generation**
    - Built a simple music generation system that uses machine learning to generate short melodies based on example songs, allowing users to input basic parameters (e.g., style or mood) and automatically create new music clips.
- **AI Podcast Generator**
    - Fine-tuned a Large Language Model (LLM) and combined it with Retrieval-Augmented Generation (RAG) to generate podcast scripts from a given topic, using a custom knowledge base as context.
    - Structured the output into multi-turn dialogues between hosts/guests to make the podcast sound natural and coherent.
    - Integrated a text-to-speech (text2wav) module to convert the generated scripts into audio, producing a complete, fully automated podcast episode.

Technical Skills

- Programming: Python, C++
- Tools & Platforms: Git, Linux, DigitalOcean, n8n

Certifications & Programs

- WorldQuant BRAIN Consultant
- Kronos Research Quantitative Trading Camp (2024)
- NYCU Investment club Quantitative Trading Study Group Leader
- Asia Investment & Banking Conference Taiwan delegate