# Allen, Wang

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## Education

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**Information Management and Finance, B.S.**

National Yang Ming Chiao Tung University Sep 2022 – Present

Relevant Course: Data Structures, Machine Learning/Deep Learning, Software Architecture, Operating Systems, Computer Networks, Derivatives & Options, Financial Engineering, Management Information Systems

## Experience

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**Medina Partners** **Taipei, Taiwan**

Quantitative Researcher Intern June 2024 – Aug 2024

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

**Asia Investment & Banking Conference** **HongKong**

Delegate

- Attended panel sessions with leading professionals from top-tier investment banks.
- Gained insights into the evolution of financial markets and FinTech innovations in APAC.

**Mutual Boost Quantamental** **Taipei, Taiwan**

Quantitative Developer Intern Sep 2024 – Oct 2024

- Developed an automated stock order execution bot using the Shioaji API.
- Designed CTA strategies deployed to DigitalOcean for live monitoring and execution.

**NYCU Quantitative Trading Study Group** **Hsinchu, Taiwan**

Co-Founder Sep 2024 – Present

- Led weekly discussions on CTA strategies, factor modeling, and predictive modeling.
- Mentored junior members on alpha design, backtesting techniques, and Python automation.

**Start-up** **Remote**

Backend Developer Intern Oct 2024 - Jan 2025

- Developed RESTful APIs for an AI assistant platform and integrated OpenAI APIs.
- Built a cross-platform mobile accounting app using React Native + Flask.
- Prioritized backend features and coordinated weekly product releases with the team.

**Yuanta Securities** **Taipei, Taiwan**

Quantitative Researcher Intern Feb 2025 – June 2025

- Optimized LassoCV for improved accuracy and efficiency in predicting Taiwan Index futures returns.
- Developed neural network models outperforming Lasso in regression performance.
- Designed and implemented a multi-bucket, multi-strategy CTA system for GC futures.

**AIFT** **Taipei, Taiwan**

Software Engineer Intern

- Built the core backend infrastructure for a decentralized prediction market using Solidity, Rust, and MongoDB.
- Developed ERC-1155-based smart contracts for share tokenization and outcome settlement.
- Collaborated with design and product teams to define market logic and user interaction flows.
- Defined MVP scope, set delivery milestones, and facilitated cross-functional syncs with the team.

## Languages

- Mandarin (Native), English (TOEIC 945)

## Technical Skills

- Programming: Python, C++, Solidity, Rust, JavaScript
- Tools & Platforms: Git, Linux, Flask, MongoDB, DigitalOcean, React Native
- Machine Learning: PyTorch, Scikit-learn, LassoCV, Neural Networks
- Web3: Smart Contracts, DeFi Protocols (AMM, Derivatives)

## Project Management & Collaboration

- Cross-functional Teamwork, MVP Planning

## Quantitative & Financial Skills

- Quantitative Research, Alpha Factor Engineering, CTA Strategy Design, Derivatives Pricing, Event Study

Certifications & Programs

- WorldQuant BRAIN Consultant
- Kronos Research Quantitative Trading Camp (2024)