Ti Wen (Steven) Chen

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EDUCATION

National Taiwan University

Sep. 2021 ~ **Jun. 2023**

Taipei, Taiwan

Master of International Business, especially majoring in Financial Engineering National Taiwan University

Sep. 2013 ~ Jun. 2018

Bachelor of Chemical Engineering

Taipei, Taiwan

Relevant Topics

Finance: Behavioral Finance, Futures and Options, Financial Computation, Financial Engineering, Financial Management, Risk

Management

Math and Stats: Advanced Statistics, Econometrics, Optimization, Statistical Learning, Stochastic Processes

Computer and Data Science: Machine Learning, Deep Learning, Reinforcement Learning

Leaderships: Director of Valley22, Manager of Eside Bond

Honors: Championship of 2022 Fidelity innovative financial technology challenge

SIDE PROJECTS

- Devised a Foster-Hart optimal momentum portfolio, which yielded a 63% win rate, 1.2 profit loss ratio and 68% more profitable than TSEC weighted index in ten years.
- Acquired knowledge of the Heston pricing model independently and implemented its closed-form solution, as well as the Finite Difference method, utilizing object-oriented programming principles in C++.
- Streamlined the corporate valuation process and financial index calculations using Python, resulting in a 60% reduction in time spent on corporate analysis.
- Scraped real-time bitcoin information and deployed automated Line notifications in response to 5% price fluctuations within a one-hour time frame.

EXPERIENCE

AI CUP House Price Prediction Competition

Sep. 2023 ~ Nov. 2023

Data Science Research

- · Collected data on factors affecting house prices, performed data analysis, and determined the factors through feature engineering.
- · Combined various statistical learning, machine learning, and deep learning models, showing a 8.3% MAPE on the private set.

Financial Computation

Feb. 2022 ~ Jun. 2022

Financial Engineering Research

Taipei, Taiwan

- · Learned Black-Scholes, Binomial tree model, Finite difference method and Monte Carlo simulation, etc. options pricing methods.
- · Applied numerical methods to find implied volatility, modify accuracy of options value and solve partial differential equation.

SinoPac Securities

Dec. 2021 ~ Jan. 2022

Business Strategies Research Intern

Taipei, Taiwan

- · Conducted top-down analysis on brokerages business strategies in DMA, API and internet trading.
- · Updated market share, conducted EDA on potential market trend and compared Taiwan and US investment banking spectrum.

Financial Statement Analysis and Corporate Valuation

May. $2020 \sim Jul. 2020$

Equity Research

Taipei, Taiwan

- · Initialized a research report covering Momo.com Inc. (8454.TW) with in-depth research on Taiwan retail market.
- · Applied DCF, PE ratio and PEG ratio valuation model for an implied share price with 23% upside potential.

ACTIVITIES

Fidelity Innovative Financial Technology Challenge

Jan. 2022~Feb. 2022

- · Created a business model which analyzes individual consumption, calculates carbon emission and issues green credit.
- Ensured our feasibility with in-depth research on Ant group's business model and the existence of green inflation.

ADDITIONAL INFORMATION

Mandarin: Native Hobbies: Basketball

English: Proficient

• Lead team ranking 3rd in NTU Basketball League