WENQI ZHANG

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EDUCATION

University of Melbourne, Melbourne, Australia   *07/2023 – 06/2025*
  Degree: Master of Information Technology
  Major: *Computing*

University of New South Wales, Sydney, Australia   *07/2018 – 09/2022*
  Degree: Bachelor of Science / Bachelor of Commerce (Dual Degree)
  Major*: Mathematics (Major), Finance (Major)*
  GPA*: 84.07/100 (Top 5%, Major GPA: 4.0)*

Academic Honors: Business School Dean's List 2020/2021, Faculty of Science Dean's List 2020 (Top 3%)

PROFESSIONAL EXPERIENCE

China Galaxy Securities   ***Beijing, China***
IBD Intern   *01/2023 – 07/2023*
  - Analysed the client company financial situation, drafted asset backed securitisation (ABS) proposal with 900 million insurance scale, and processed formal financial product insurance towards regulatory authority
  - Built cash flows measurement models on Excel, analysed 4-year leasing income calculating principal & interest recovery, priority stratification calculation and aggregation statistics
  - Drafted REITs feasibility research proposal and reported to local government, planned investment structure with 8billion funds and estimated returns, constructed indexes to measure client operating performances
  - Employed Wind database terminal to collect financial market data, including IPO, refinancing, M&A and restructuring, public REITs fund market fundraising scale, product type etc.

Mastercard   ***Shenzhen, China***
Assistant Consultant Intern   *09/2022 – 01/2023*
  - Provided cooperation proposition for Mastercard and clients in healthcare industry to achieve performance higher than industry average of 6k + monthly new customers, 8% conversion rate and 60% retention rate
  - Produced reports on industry research and over 50 benchmark product analysis in China, US and HK by desk research and case study, identified consumer behaviours, development trends and pain points
  - Applied PEST, Porter's Five Forces strategic consulting models on business environment, clarified business position, competitive strengths and objectives, employed data analysis and provided solutions for clients
  - Participated in expert meetings, acquired in-depth needs for client by talking directly to project administrators, summarized operation models and effectiveness, wrote minutes of expert meetings

Tencent   ***Remote***
Data Analysis Intern   *05/2022 – 08/2022*
  - Employed Python to clean and process millions of text data over 5-year time span from Tencent news website, drafted website operation analysis report to deliver data evidence for decision-making
  - Pre-processed 20% missing values and outliers, extracted valuable data into time-series data frames, aggregated news by primary and secondary categories with statistics on publishing and reading volumes
  - Predicted forward months of news publishing volume by adopting time-series analysis in day and hour granular respectively, doubled website auditing efficiency
  - Developed text classifier able to recognize over 20 news categories by applying Naïve Bayesian algorithm, CNN and RNN deep learning models, adjusted parameters to achieve 85% accuracy

JD. com, Inc. *Beijing, China*

Data Analysis Intern *08/2021 – 09/2021*

- Performed data cleaning and descriptive analysis on over 120,000 warehousing operation records by Excel, including tabulation and plotting, and derived current picking efficiency situation
- Designed quantitative metrics to measure operations from 3 dimensions, including time, workload and order volume, identified key factors affecting efficiency by applying correlation and comparative analysis methods
- Presented data analysis report with 3 proposed solutions, leading to 30% improvement in picking efficiency

Citi Bank *Remote*

Investment Banking Department Assistant *06/2020 – 08/2020*

- Collected financial data through FactSet terminal, pitched 10 outperforming stocks from 65 Dow Jones Index through fundamental analysis, allocated stock portfolio attaining 1.8 Sharpe ratio through Excel
- Engaged in due diligence on Apple Inc. on financial statement analysis including financial index measurement, profitability, debt solvency, turnover ability assessment, contributed analysis report
- Conducted well-rounded research on global mobile device industry, summarized information on market size, competition patterns, barriers and industry chain, etc., drafted visualized industry research report
- Built discounted cash flow (DCF) model to compute intrinsic value of Apple based on forecasted future 5-year financial situation, calculated comparable value, generated valuation analysis report

ACADEMIC PROJECTS

Financial Derivative Pricing and Stochastic Analysis Project

Individual Project *06/2022 – 8/2022*

- Generated simulation of stock prices in Brownian motion with expected market return and volatility through MALAB, achieved the underlying European option prices by the N-step binomial option pricing model
- Constructed the hedging strategies with portfolio containing European options and underlying assets in response to different price movement directions, derived and fitted into the Black-Scholes model
- Computed solutions to Black-Scholes PDE in finite difference method by adopting Weiner's process, Taylor polynomials approximations, LU-factorization and appropriate boundary and initial conditions

Portfolio and Foreign Exchange Management Project

Individual Project *09/2020 – 10/2020*

- Built automation tool to download and analyze financial data through Python, generated optimal portfolio allocation decisions and forecasted price movements of global major transacted currencies
- Adopted single index model and Markowitz model for dozens of US stocks, applied convex optimization mathematics method, optimized asset allocation decisions by comparing the S&P 500 market return index
- Constructed multi-factor regression model on foreign exchange market over GDP, interest rate, and inflation rate, performed parameter and significance analysis, predicted forward three months price trend

ADDITIONAL INFORMATION

Language: Chinese (Native), English (Fluent)

Computer Skills: Python, MATLAB, SQL, R, MS Excel

Extracurricular Activities: Badminton, fitness

Awards for volunteer and leadership: Australian Youth Student Association Contribution Award of the Year 2021, Award for Outstanding Service on the UNSW Student Council during 2019-2020