

CHAN YI HENG

+65 8862 0913 | c@chanyh.com | chanyh.com | cyh-chan | chanyiheng

EDUCATION

Singapore University of Social Sciences
Bachelor of Science (Honours) in Mathematics

Singapore, SG
Jan 2022 – Dec 2025

Singapore Polytechnic
Diploma in Banking & Finance

Singapore, SG
Apr 2016 – Mar 2019

EXPERIENCE

Research Intern

Nov 2024 – May 2025

*A*STAR, Advanced Remanufacturing and Technology Centre, Digital Supply Chain*

Singapore, SG

- Awarded the A*STAR Research Internship Award
- Collaborated with a team under the supervision of Dr. Liu Ning on the project "Data-Driven Framework for Enhancing Supply Chain Resilience"
- Reproduced and refined the model from the research paper "A Practical End-to-End Inventory Management Model with Deep Learning", enhancing the inventory management system's accuracy and performance

Finance Assistant

Sep 2021 – Dec 2021

Indeed

Singapore, SG

- Assisted in the successful migration of Japanese entity accounts, ensuring compliance with international accounting standards and regulatory requirements
- Maintained precise and reliable financial records for Japanese entities, leveraging advanced accounting software to ensure accuracy and consistency
- Collaborated with internal stakeholders to efficiently execute financial transactions using the Salesforce platform, improving transaction processing time and accuracy
- Developed and implemented interim solutions to reduce miscommunications, significantly enhancing team efficiency and workflow productivity

Finance Assistant

Aug 2019 – Dec 2021

Singapore Armed Forces

Singapore, SG

- Managed unit financial accounts using a central government procurement system, providing expert advice on operational and welfare purchases to optimize resource allocation
- Ensured compliance with procurement policies and directives for HQ sub-units through effective collaboration with finance stakeholders, enhancing adherence to regulations
- Conducted bi-annual internal audits, including Risk Internal Control Evaluations, and prepared comprehensive reports with findings and analyses for submission to the Unit Chief
- Made strategic recommendations for improving finance governance at the unit level and implemented accepted measures to enhance system discipline and operational efficiency
- Co-managed COVID-19 Taskforce finances with finance clerks and officers, ensuring accurate and timely processing of all financial transactions during a critical period

Wealth Management Intern

Sep 2018 – May 2019

DBS Bank

Singapore, SG

- Conducted comprehensive reviews of documents under the Accredited Investor regime, ensuring full compliance with regulatory requirements and internal policies
- Collaborated with the Front Office to efficiently execute service requests from Private Banking clients, consistently delivering exceptional customer service
- Maintained precise and up-to-date transaction records for Private Banking clients, ensuring compliance and reliability of financial documentation
- Assisted the Team Lead in collecting and analyzing data, identifying areas for system enhancement, and proposing actionable solutions to improve process efficiency and effectiveness

RESEARCH

Machine Learning Techniques for Stock Price Prediction | *Dr. Joey Zhou Tianyi*

Jan 2025 – Nov 2025

- Developed and implemented a Bayesian framework for stock price prediction, incorporating probabilistic forecasting to model market uncertainty and improve predictive accuracy
- Designed and implemented Bayesian neural networks (BNNs) for stock price forecasting, emphasizing the ability to capture uncertainty in predictions
- Conducted a comprehensive comparative analysis of Bayesian neural networks against traditional forecasting methods and other machine learning models
- Performed backtesting on historical stock data to evaluate model performance across different metrics, including forecasting accuracy and robustness under market volatility
- Demonstrated the advantages of Bayesian methods in capturing market uncertainty compared to other models, highlighting their utility in complex financial prediction tasks

Data-Driven Framework for Enhancing Supply Chain Resilience | *Dr. Liu Ning*

Nov 2024 – May 2025

- Conducted literature review and familiarization with End-to-End (E2E) inventory management systems and data-driven frameworks
- Simulated synthetic data, analyzed distribution patterns, and integrated real-world data into a Deep Learning model
- Developed and tested an E2E Reinforcement Learning-based approach, implementing and training models to optimize supply chain resilience
- Performed hyperparameter optimization, sensitivity analysis, and refined model designs to enhance performance metrics
- Delivered a comprehensive final project report and presentation, documenting insights, challenges, and results

COMPETENCY

Programming Languages & Databases: Python, SQL, JavaScript, HTML/CSS, R
Typesetting & Presentation Tools: LaTeX, Microsoft Office, Google Workspace
Developer Tools: Git, VSCode, Visual Studio, PyCharm
Language Proficiency: English (Fluent), Chinese, Mandarin (Fluent)