

# CHAN YI HENG

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## 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

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

Jan 2025 – Nov 2025

  - Developed and implemented a Bayesian framework for stock price prediction, incorporating probabilistic forecasting to model market uncertainty and enhance trading decisions
  - Designed and tested alpha generation strategies, leveraging momentum-based and mean-reversion techniques informed by predictive distributions
  - Conducted backtesting on historical stock data to evaluate performance against traditional benchmarks, such as market indices and standard financial models
  - Performed comparative analysis of Bayesian methods versus traditional and machine learning models, demonstrating improvements in alpha generation and market uncertainty modeling

- 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

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**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)