

Chye Zhi Hao

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SUMMARY

Year 1 Applied Computing (FinTech) student at the Singapore Institute of Technology with a strong interest in AI, blockchain, fintech and emerging technologies. Actively participates in various hackathons, demonstrating fast learning, adaptability, and the ability to pick up new technical concepts quickly. Driven to build a career in AI, Fintech and Web3 over the next five years, with the long-term goal of sharing my journey and inspiring future juniors in the FinTech community.

EDUCATION

Singapore Institute of Technology

Singapore

Bachelor of Science, Applied Computing in Fintech.....Expected in 08/2028

Singapore Polytechnic

Singapore

Diploma in Mechatronics and Robotics.....04/2023

WORK EXPERIENCE

ASM ASSEMBLY SYSTEMS SINGAPORE PTE. LTD.

Singapore

PLIC Supplier Management Intern

09/2022 - 02/2023

- Automated reporting processes with Excel VBA, improving data accuracy and reducing manual entry time by 40%.
- Conducted data-driven quality checks using measurement jigs and metrology tools.
- Collaborated cross-functionally to support supplier performance monitoring and KPI tracking.

PROJECTS & HACKATHON

SingHacks 2025, Hedera Challenge (3rd Place)

11/2025

Project: Agentic System for Trustworthy AI Collaboration using ERC-8004 & X402

- Used Python and Hedera SDKs to prototype an agentic ecosystem where AI agents autonomously transact and collaborate on the Hedera testnet.
- Integrated ERC-8004 smart contract logic for identity validation and X402 microtransaction protocols for secure payment flows.

CFA Institute, Investing Simulator Challenge (Top 10%, Global)

12/2025

- Ranked in the top 10% of all participants worldwide, demonstrating strong portfolio management, risk assessment, and market analysis skills.

- Simulated the role of an **investment bank analyst**, interpreting real-time news, economic data, and market catalysts to make high-conviction trading decisions.
- Operated in a fast-moving environment similar to a **hedge fund trader**, balancing risk exposure, optimizing entry/exit timing, and maintaining disciplined positioning under volatility.

NUS CatalystX 2025

- Designed and simulated **Everflow**, an offline-resilient payment caching system coded in Python, implementing **RSA-based encryption** to ensure transaction integrity during network outages.

STOCK MARKET ANALYSIS

- Coded in **Python** using Pandas, NumPy, and yfinance to download and analyze historical stock data, generating SMA indicators and daily return visualizations.
- Applied **algorithmic logic and data analytics** to identify upward/downward streaks, improving trend detection accuracy.

CLASS MANAGEMENT SYSTEM

- Built a full-featured student record management system in **C**, implementing data structures (struct arrays), file I/O, sorting algorithms, and search/query functions to manage dynamic datasets.
- Developed input sanitization, record updates, data validation, and menu-driven UI logic, demonstrating strong foundations in **low-level programming, memory handling, and algorithmic thinking**.

SKILLS

- Programming: Python, C
- Tools: Git, Microsoft Excel, Streamlit (for dashboards), VS Code, Vercel, Render, Docker
- Interests: Digital Banking, Web3 Infrastructure, FinTech Innovation, Artificial Intelligence
- Language: English, Chinese, Malay, Japanese(N4)