

ANG YI SHUAN

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Skills & Qualifications

- **Programming & Development:** Proficient in Python (NumPy, Pandas), Big Data, and Shell Scripting. Experienced in developing and deploying complex algorithms, with a focus on automation and optimization.
- **Data Analysis & Quantitative Research:** Strong foundation in statistical modeling, backtesting, and Monte Carlo simulation. Capable of translating complex data sets into actionable insights, particularly in the realm of algorithmic trading.
- **Trading & Financial Analysis:** Deep understanding of algorithmic trading strategies, with hands-on experience in derivatives trading (SPXW Options) and risk management. Skilled in developing and backtesting trading strategies to achieve consistent returns.
- **Automation & Systems Integration:** Expertise in automating trading processes and system workflows using Shell Scripts and Cron Jobs, reducing manual intervention and increasing efficiency.
- **Web Development & Deployment:** Strong understanding of HTML, CSS, and Next.js, with the ability to adapt and deploy web solutions on self-hosted platforms.
- **Entrepreneurship & Innovation:** Proven ability to innovate and create impactful solutions, from founding a startup supported by NUS Enterprise to developing technology-driven projects that solve real-world problems.

Professional Summary

Hi, I'm Yi Shuan. I'm a Computer Engineering graduate with a knack for entrepreneurship and a passion for innovation. I've developed and deployed TailTitanPro, an algorithmic trading system yielding a 130% YTD return, specializing in US derivatives. Obsessed with problem-solving and continuous learning, I excel in leveraging data and technology to create impactful solutions. Strong background in Python, quantitative analysis, and automation, with a focus on driving financial innovation.

Experience

Algo-Trading Developer (TailTitanPro) · Singapore, Singapore

Solo · October 2021 – Current

- Conceptualized, designed, and deployed TailTitanPro, an algorithmic trading system specializing in US derivatives, achieving a 130% YTD return.
- Developed proprietary trading algorithms using Python, incorporating machine learning techniques to optimize trade execution and risk management.
- Automated trade execution, data collection, and analysis processes, significantly reducing manual intervention and improving system efficiency.
- Managed a portfolio with a focus on ODTE SPXW options, employing advanced statistical methods to backtest and refine trading strategies.
- Detailed the development and performance of TailTitanPro in a [blog post](#) on my website.

Telegram Bot Developer, @thesaturdaybookclub · Singapore, Singapore

Solo · November 2023 – Current

- Developed and maintain @thesaturdaybookclub_bot, an attendance management system for "The Saturday Book Club," saving the volunteer team over 5 hours per session.
- Hosted the system on a self-hosted MacOS server, optimized to handle >~80 concurrent users per session and >160 registered users to date.
- Documented the development process and technical details in a [blog post](#) on my website.

Founder, AUBII – supported by NUS Enterprise · Singapore, Singapore

July 2020 – September 2021

- Founded AUBII, a startup focused on helping piano students reduce self-practice time by up to 80% through personalized feedback.
- Adapted a smart glove system to sense the user's hand movements, enabling real-time feedback.
- NUS VIP Grant Recipient

Research & Development Intern, Prognoix · Singapore, Singapore

April 2020 – July 2020

- Conducted research on healthcare systems in the EU and Oceania, contributing to the company's market entry strategy.

Education

National University of Singapore (NUS)

Bachelor of Engineering (Computer Engineering) with Honours (Distinction)
Minor in Entrepreneurship
NUS Overseas Colleges (NOC) Shenzhen, China

Singapore,
Singapore
June 2021

Additional Information

- **Blog:** [Introducing TailTitanPro: My Journey in Algo-Trading](#)
[The Saturday Book Club Bot Development](#)
- **Portfolio:** shuanang.ddns.net