

JOEL LO

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EDUCATION

National University of Singapore (NUS)

Aug 2021 - Dec 2025

Bachelor of Engineering (Honours) in Industrial & Systems Engineering

GPA: 4.12 / 5.0

- Double Major in Data Analytics
- Minor in Computer Science
- Certification in Fundamentals of Investments (CFI) - Wealth Management Institute
- CFA Level I Candidate - Feb 2025

SKILLS

- Python, R, Tableau, Java, JavaScript, VBA for Excel, MATLAB, MySQL, HTML, CSS, React.js, GitHub
- Probability, Statistics, Engineering Economics, Data Visualisation, Data Analysis, Data Structures and Algorithms, Software Engineering, Operation Research, Microsoft Office Suite, Commodities Market

WORK EXPERIENCE

Derivatives Analyst Intern, InterFood

Jun 2024 - Present

- Built an automatic announcement system which summarise and highlights trends in recent NZA reports on dairy powder supply and derivative contracts, using web scraping and regression models.
- Created a dashboard using 6 complex and bulky data sets using Pandas and Dash, providing the trading team with insider information regarding current market trends.
- Supported the creation of a backtesting system coded in Python for spread trading strategies.

Quantitative Research Consultant (Contract), WorldQuant

Sep 2023 - Present

- Developed 14+ quantitative trading algorithms on Brain Platform using Fast Expression, ensuring sector neutrality, and incorporating diverse signals such as RSI, Volatility, and TTM Revenue.
- Backtested 1148 trading signals across US and China markets with a 10-year dataset.
- Achieved a Sharpe value of 2.10 with the top trading idea.

Summer Analyst Intern, Viettonkin Consulting

May 2023 - Aug 2023

- Provided Market Readiness Assistance for Foreign Direct Investors entering the Asia-Pacific market.
- Used predictive analytics to reshape pipeline strategies, boosting client acquisition by 233% and MoM following by 11 times.
- Conducted FDI trend analysis and acquired 12+ partners by creating an automated CRM dashboard.

RESEARCH AND TEACHING EXPERIENCE

Teaching Assistant, National University of Singapore

Aug 2023 - Nov 2023

- Instructed a class of 35 students on Industrial and Systems Engineering Principals, IE1111R, specifically mathematical modelling, data analytics and simulation, using VBA and Python.

Student Research Assistant, National University of Singapore

Jan 2023 - May 2023

- Researched real-time applications of transformer-based computer vision models, implemented in Python, to detect housekeeping issues on 50+ construction sites in Singapore.

EXTRA CURRICULAR ACTIVITIES

Vice-President [Internal], NUS Industrial & Systems Engineering Club

Aug 2021 - Aug 2023

- Mentored project directors and vice-project directors in medium-scale event planning of 12 events for 300+ members and ensured internal compliance with Singapore PDPA regulations and NUS policies.

AWARDS

- Qualified for WorldQuant International Quant Finance Challenge 2023 Semi-Finals.
- Won Best Business Use Case in NTUC FutureX 2022 Regional Blockchain Hackathon.
- Awarded Apollo 11 (Advanced) for Orbital Summer 2022 Independent Software Development Project.