

# Lo Zhi Hao

zhihao.lo@u.nus.edu (Preferred) | +65 80237584 | <https://linktr.ee/lozhihao> | <https://www.linkedin.com/in/zhi-hao-lo>  
Aspiring Data Scientist, Writer, Investor; Using Data to Make Life Better, One Datapoint at a Time

---

## EDUCATION

### National University of Singapore

*BSc. in Business Analytics*

CAP: 4.34 / 5.0

Singapore, Singapore  
Aug, 2021 – Dec, 2025 (Expected)

- **Academics:** Second Major in Economics & Specialized in Machine Learning-based Analytics
- **Awards:** Certificate of Distinction in Analytics Techniques Knowledge Area, Certificate of Distinction in Financial Analytics Specialisation, ASEAN Undergraduate Scholarships

## WORK EXPERIENCE

### Azure Tide Holdings Pte. Ltd.

*Data Analyst Intern*

Singapore, Singapore  
Aug, 2024 – Jan, 2025 (Expected)

- Utilized Python to integrate with 5+ APIs (CoinMarketCap, CoinGecko, Debank, Binance, Blockchain.com) to collect and process data for over 20+ cryptocurrencies and wallets
- Automated daily updates of cryptocurrency prices and conducted due diligence on counterparties' financial situations, reducing manual workload by 90% per day and improving data accuracy
- Streamlined the distribution of financial and market updates to 10+ stakeholders via Sheety, Slack, and Telegram APIs, reducing the update time by 80% and ensuring real-time communication

### Continental AG

*Data Analytics Intern*

Singapore, Singapore  
Jan, 2024 – Jun, 2024

- Designed and implemented a PowerBI dashboard to compare and filter similar projects, aiding project managers in identifying past project details and costs
- Proposed and executed a redesign of the data relationships between 20+ tables in the project details management dashboard, streamlining data flows and improving efficiency
- Employed PowerQuery for data cleaning and manipulation, and leveraged DAX measures to calculate key metrics (mean, median, standard deviation) for real-time project cost management

### Jurong Town Corporation (JTC)

*Data Science Intern*

Singapore, Singapore  
May, 2023 – Aug, 2023

- Conducted data cleansing, preprocessing, feature engineering, and developed machine learning models to accurately predict the occupancy rate of sub-segments within the industrial property sector
- Improved Mean Absolute Error of model predictions to 0.21% quarterly hence reducing the number of occupancy rate surveys needed by the company from 4 to 2 times per year
- Identified and visualized key factors that significantly contribute to higher premiums observed in both food and generic industrial space

## PROJECTS

### Capstone Project: Cargo Permit Data Extraction Automation

*The Coca-Cola Company*

Aug, 2024 – Nov, 2024 (Expected)

- Automated process of cargo permit data extraction using Computer Vision, enhancing processing efficiency and accuracy
- Engineered synthetic data generation with cv2 and conducted data annotation via Roboflow, increasing training data by 80% and enhancing model training quality through improved dataset reliability
- Fine-tuned the YOLOv8 model for bounding box identification and implemented advanced OCR solutions (Pytesseract, Doctr, PaddleOCR), resulting in 99% precision in text extraction and streamlined data management for over 700 cargo permits

## LEADERSHIP EXPERIENCE

### NUS Business Analytics Consulting Team

*Vice-President (Internal) & Senior Analyst*

Aug, 2023 – Aug, 2024

- Led a team of 4 in delivering a data science project to accurately forecast crop prices 1-3 days ahead for Sarisuki, a startup in the Philippines. Performed data analysis, feature engineering, and developed models using ARIMA, SARIMA, VARIMA, LSTM, and Transformers for 19 crops, with backtesting via MAE and MAPE metrics
- Managed a publicity team of 4 to oversee social media platforms (Instagram, LinkedIn, Telegram), posting events and updates for over 300 followers on Instagram and LinkedIn, and 80 members on Telegram
- Facilitated weekly data analytics events, coordinating with external parties to deliver machine learning and data analytics sessions for 80+ members

## SKILLS

- **Programming Languages:** Python, R, SQL, Java, JavaScript, HTML, CSS
- **Frameworks & Libraries:** VueJs, Firebase, Pandas, Numpy, Sklearn, Tensorflow, Airflow, Selenium, Bs4, Streamlit
- **Analytics Tools:** PowerBI, Tableau, Excel, UiPath, Alteryx, Figma, MySQL, PostgreSQL, Power Query, DAX
- **Certifications:** RPA Developer Foundations (UiPath), Data Science & Machine Learning Fundamentals (CFI)
- **Languages:** Fluent in Spoken English, Mandarin, Malay; Competent in Written English, Mandarin, Malay