

ANDY ANDIKKO

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EDUCATION

The University of Chicago	Chicago, IL
Master of Science in Financial Mathematics	Expected December 2025
<ul style="list-style-type: none">Courses: Portfolio Theory & Risk Management, Quant Research, Option Pricing, Probability & Stochastic Processes	
National University of Singapore	Singapore
Bachelor of Engineering in Chemical Engineering (GPA: 3.78 / 4.0)	May 2024
<ul style="list-style-type: none">Courses: Numerical Methods, Linear and Non-linear Optimization (Graduate course), Differential Equations, Multivariate Calculus, Mathematical Modeling, Computational Simulation, Machine Learning, Project Management and EconomicsVisiting semester exchange student at The University of Texas at Austin (Texas, Austin) with a GPA of 4.0/4.0Awards: First Class Honors; Double Dean's list; UT Austin University Honors List (Fall 2022)	
National University of Singapore	Singapore
Dual Degree Program, Bachelor of Business Administration (GPA: 3.86 / 4.0)	May 2024
<ul style="list-style-type: none">Courses: Predictive Analytics, Deep Learning and Generative AI, Financial Analytics, Statistics, EconomicsAwards: First Class Honors; Triple Dean's list; EDUCE Consulting Case Competition 2022 (Top Finalist); J.P Morgan Private Bank Challenge 2022 (Finalist); Amplify Trading 2021 Global Markets Competition APAC (Grand Finalist)	

SKILLS

Computing: Python, Jupyter, R, SQL, MATLAB, MS Office, MS Excel, Git, Bash, AWS Sagemaker, Metaflow
Knowledge: Machine learning, HPC, Financial Markets, Data Analytics, Data Engineering, Parallel Computing, Generative AI
Trading Products: Futures, Commodities, Fixed Income, Equities, Options
Additional Language: Chinese (Fluent)

EXPERIENCE

MetaLearner	Singapore
Data Engineering Intern	June 2024 – August 2024
<ul style="list-style-type: none">Led development of a next-generation time series forecasting pipeline, creating custom ML packages using Optuna, Dask for high-performance computing, while leveraging interpretable ML for forecasting confidenceTransitioned forecasting pipeline to AWS SageMaker and Fargate for distributed GPU-accelerated parallelization, enhancing forecasting accuracy and slashing computation time by 30%Integrated Polars into data pipelines after rigorous performance benchmarking against Pandas and Databable, achieving a 5 times speedup in data cleaning, outlier detection, and feature engineering processesDeveloped a robust interface for parallelization across diverse ML libraries, facilitating seamless integration of models	

RESEARCH

National University of Singapore	Singapore
Applied Machine Learning Researcher	January 2024 – March 2024
<ul style="list-style-type: none">Collaborated with Prof. Rafael Nicolas Fermin Cota's research team and resolved critical dependency conflicts by identifying incompatibilities within R packages for a Bitcoin return predictions stack modelEngineered a valuation model to forecast ARM's IPO valuation at USD 52.3 Billion at a suggested 20% growth assumption pre-IPO aligning closely with actual IPO outcomes despite prevailing analyst projections and hypeBuilt a library of custom operations and ML pipelines for trading applications, bringing deep learning architectures to mlr3 package, and establishing a ML ecosystem in R more flexible yet computationally similar in speed with python	
Just Dabao Pte Ltd	Singapore
Marketing Analytics Student Researcher	June 2023 – November 2023
<ul style="list-style-type: none">Led data-driven campaigns employing web scraping, A/B testing, and AI-assisted content, increasing reach by 36.7%Developed an automated metrics dashboard, streamlining campaign performance monitoring over time; content generation workflow reduced cost of acquisition of a follower by 32%, outperforming inorganic methods	

EXTRACURRICULAR

NthDimension	Singapore
Co-Founder	May 2023 – Present
<ul style="list-style-type: none">Pitched a social gaming platform, won an NUS Venture Grant, onboarded eight clients, and established an advisory board	
Singapore Armed Forces (SAF)	Singapore
First Lieutenant	Mar. 2019 – Apr. 2020
<ul style="list-style-type: none">Jungle Warfare Specialist; Overseas exercises in Thailand, Brunei; Coordinated crisis management involving thousands; Executed over 50 training programs; Received accolades as best platoon commander for superior team cohesion	