

## ANDY ANDIKKO

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### EDUCATION

<b>The University of Chicago</b>	<b>Chicago, IL</b>
<b>Master of Science in Financial Mathematics</b>	<b>Expected December 2025</b>
<ul style="list-style-type: none"><li>Courses: Portfolio Theory &amp; Risk Management, Python, Option Pricing, Probability &amp; Stochastic Processes</li></ul>	
<b>National University of Singapore</b>	<b>Singapore</b>
<b>Bachelor of Engineering in Chemical Engineering (GPA: 3.78 / 4.0)</b>	<b>May 2024</b>
<ul style="list-style-type: none"><li>Courses: Numerical Methods, Linear and Non-linear Optimization (Graduate course), Differential Equations, Multivariate Calculus, Mathematical Modeling, Computational Simulation, Machine Learning, Project Management and Economics</li><li>Visiting semester exchange student at The University of Texas at Austin (Texas, Austin) with a GPA of 4.0/4.0</li><li>Awards: First Class Honors; Double Dean's list; UT Austin University Honors List (Fall 2022)</li></ul>	
<b>National University of Singapore</b>	<b>Singapore</b>
<b>Dual Degree Program, Bachelor of Business Administration (GPA: 3.86 / 4.0)</b>	<b>May 2024</b>
<ul style="list-style-type: none"><li>Courses: Predictive Analytics, Deep Learning and Generative AI, Financial Analytics, Statistics, Economics</li><li>Awards: 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)</li></ul>	

### SKILLS

**Computing:** C++, 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

<b>MetaLearner</b>	<b>Singapore</b>
<b>Data Engineering Intern</b>	<b>June 2024 – Present</b>
<ul style="list-style-type: none"><li>Designed custom machine learning functions integrating state-of-the-art high-performance computing solutions using Optuna, Dask, and cloud computing, replacing existing prediction stack and reducing computational resources by 50%</li><li>Integrated Polars library and engineered a novel interface supporting parallelization between different ML libraries</li></ul>	
<b>Handal Indah Sdn Bhd</b>	<b>Johor Bahru, Malaysia</b>
<b>Engineering and Business Development Intern</b>	<b>June 2022 – August 2022</b>
<ul style="list-style-type: none"><li>Optimized charging infrastructure to 100kW via TCO analysis and led country's first EV public bus fleet conversion</li><li>Partnered with other bus operators and engineers to optimize charging protocols to 20-90% and enhance battery longevity</li></ul>	

### RESEARCH

<b>National University of Singapore</b>	<b>Singapore</b>
<b>Applied Machine Learning Researcher</b>	<b>January 2024 – March 2024</b>
<ul style="list-style-type: none"><li>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 project</li><li>Engineered 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 hype</li><li>Developed packages in mlr3, designing a library of custom operations and developing machine learning pipelines for trading applications, bringing new deep learning architectures to mlr3</li></ul>	
<b>Just Dabao Pte Ltd</b>	<b>Singapore</b>
<b>Marketing Analytics Student Researcher</b>	<b>June 2023 – November 2023</b>
<ul style="list-style-type: none"><li>Led data-driven campaigns employing web scraping, A/B testing, and AI-assisted content, increasing reach by 36.7%</li><li>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</li></ul>	

### EXTRACURRICULAR

<b>NthDimension</b>	<b>Singapore</b>
<b>Co-Founder</b>	<b>May 2023 – Present</b>
<ul style="list-style-type: none"><li>Pitched a social gaming platform, won an NUS Venture Grant, onboarded five clients, and established an advisory board</li></ul>	
<b>Singapore Armed Forces (SAF)</b>	<b>Singapore</b>
<b>First Lieutenant</b>	<b>Mar. 2019 – Apr. 2020</b>
<ul style="list-style-type: none"><li>Coordinated crisis management for a thousand personnel, executed over 50 training programs, and received accolades as best platoon commander for superior team cohesion and training outcomes</li></ul>	