ADVIK CHAUDHARY

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EDUCATION

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University of Chicago	CHICAGO, II
B.A. Economics, B.S. Computer Science. Davis UWC Scholar.	SEPT '23-DEC '20
es: Honors Microeconomics, Linear Algebra, Systems Programming III, Mechanics. 3.85/4.00 Major GPA: 3.95/4.00	
UNITED WORLD COLLEGE OF SOUTHEAST ASIA (UWCSEA)	Singapori
$IB\ Diploma$	Aug '19-Aug '2
PA: 4.25/4.30 (Points: 44/45)	
WORK & LEADERSHIP	
MILLENNIUM MANAGEMENT FICC, Trading Intern	Singapore
• Developed strategies & backtesting module (Python) for PMs, created \$70k PnL during testing.	Aug '24–Oct '24
• Strategies included: IMM rolls seasonal study, UST auction dates vs. yields. Presented to PMs.	
• Developed CTA-style systematic strategies (with variable positioning & drawdown management) and used genetic algorithms to routinely optimize parameters (in production).	
• Created lightweight terminal-based app to display technical analysis and suggest trades.	
PASSION TO SERVE Non-Profit, Founder	SINGAPORE
• Founded non-profit organization to tackle inequality in education and essential items, assisting	May '20-Present
over 18,000 beneficiaries in Singapore (children; migrant and domestic workers).	
\bullet Built team of 300 volunteers to date, securing over \$160,000 in-kind funding. Partnerships with 8	
NGOs, Singapore's Ministry of Manpower, and asset management firm.	
BlueCrest Capital Macro Strategy, Summer Analyst (Unpaid)	SINGAPORI
• Built strategy to identify trades by analyzing FX Options Vol market data and deriving implied	Jun '21-Aug '21
correlations across currencies (app GUI in JavaScript/HTML/CSS with Python backend).	
• Leveraged Bloomberg API for real-time data, Z-scores to detect deviations in implied vs. realized	
correlation, with automated email alerts, heatmaps, and charts.	
• Optimized algorithm to handle 600+ currency pair combinations (G10 & Asian currency pairs).	
ACADEMIC ACTIVITIES	
NSP EDUCATION, QUANT TRADING, EDGE ENTREPRENEURSHIP Student Organizations	Univ. of Chicago
Neighborhood Schools Program: non-profit education for K-12 children in Greater Hyde Park.	OCT '23-PRESENT
Quant Trading: covered options, futures, ARMA, non-linear vol models (ARCH/GARCH).	
Edge: lectures from CTA, software, and biotech founders. Pitched a college advising startup.	
QUANTUM COMPUTING (NATIONAL UNIVERSITY OF SINGAPORE) Researcher	Singapori
• Developed and compared classical and quantum models for mean-variance portfolio optimization	OCT '22–JAN '23
using IBM Q quantum computers, documented in working paper, with Prof. Hua.	
• Demonstrated the quantum model's superior performance, optimizing medium-sized stock	
portfolios (constant time vs. exponential), for scalable portfolio management.	
ELECTRON PARAMAGNETIC RESONANCE (EPR) SPECTROSCOPY Researcher	Singapori
• Conducted EPR spectroscopy on DPPH and MnCl ₂ to analyze electron structures, including	SEP '22-OCT '22
measurements of resonant magnetic fields, g-factors, and hyperfine constants, increasing	
understanding of paramagnetic samples and EPR applications in quantum computing.	
• Identified six hyperfine peaks for MnCl ₂ , validating theoretical predictions & spin interactions.	
• Worked with Prof. Petasis to publish findings in the Journal of Student Research (JSR). AWARDS	
GOLD AWARD RECIPIENT National Youth Achievement Award (NYAA)	SINGAPORE
Selected as one of 30 awardees in Singapore, between 16 and 30 years of age. Awarded by Mr Heng	Jul '22
Swee Keat, Deputy Prime Minister of Singapore for non-profit work, among other activities.	

SKILLS: Python, C, R, SQL, Bloomberg API, Qiskit (Quantum), Backtesting, Technical Analysis, Excel