ADVIK CHAUDHARY

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EDUCATION

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THE UNIVERSITY OF CHICAGO	CHICAGO, IL
B.A. Economics, B.S. Computer Science. Davis UWC Scholar.	SEPT '23-DEC '26
Sourses: Honors Microeconomics, Linear Algebra, Systems Programming III, Mechanics. SPA: 3.85/4.00 Major GPA: 3.95/4.00	
UNITED WORLD COLLEGE OF SOUTHEAST ASIA (UWCSEA)	Singapore
IB Diploma	Aug '19-Aug '23
GPA: 4.25/4.30 (Points: 44/45)	
WORK & LEADERSHIP	
MILLENNIUM MANAGEMENT FICC, Trading Intern	SINGAPORE
• <u>Developed</u> 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.	
BlueCrest Capital Macro Strategy, Summer Analyst (Unpaid)	SINGAPORE
• Built <u>strategy</u> to identify trades by analyzing FX Options Vol market data and deriving implied correlations across currencies (app GUI in JavaScript/HTML/CSS with Python backend).	Jun '21-Aug '21
• 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).	
PASSION TO SERVE Non-Profit, Founder	Singapore
• Founded non-profit <u>organization</u> to tackle inequality in education and essential items, assisting over 6,500 beneficiaries.	May '20-Aug '23
• Built team of 150 volunteers, securing over \$100,000 in-kind funding, and partnerships with 8	
NGOs and Singapore's Ministry of Manpower.	
ACADEMIC ACTIVITIES	
QUANT TRADING & EDGE ENTREPRENEURSHIP Student Clubs	UNIV. OF CHICAGO
${\it Quant~Trading:}~{\rm covered~options,~futures,~ARMA,~non-linear~vol~models~(ARCH/GARCH)}.$	OCT '23-PRESENT
Edge: lectures from CTA, software, and biotech founders. Pitched a college advising startup.	
ELECTRON PARAMAGNETIC RESONANCE (EPR) SPECTROSCOPY Researcher	Singapore
• 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 <u>publish</u> findings in the Journal of Student Research (JSR).	
QUANTUM COMPUTING (NATIONAL UNIVERSITY OF SINGAPORE) Researcher	SINGAPORE
• 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.	
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
Swoo Koat Doputy Prima Minister of Singapore for non-profit work, among other activities	

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

Swee Keat, Deputy Prime Minister of Singapore for non-profit work, among other activities.