Advik Chaudhary

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EDUCATION

The University of Chicago	Chicago, IL
B.A. in Economics, B.S. in Computer Science. Davis UWC Scholar.	Sept '23–June '27
Courses: Honors Microeconomics, Linear Algebra, Systems Programming III, Mechanics.	
GPA: 3.89/4.00	

United World College of Southeast Asia (UWCSEA)	Singapore
	Aug '19–Aug '23

IB Diploma   *IGCSE Diploma*

Advanced Economics, Math, Physics   GPA: 4.00/4.00 (A* in all nine subjects)

GPA: 4.25/4.30 (Points: 44/45)

INTERNSHIPS

Millennium Capital Management, Hedge Fund *Intern (Freshman)*	Singapore
Presented trading module for PMs, generated $70k PnL while there. Backtested/developed strategies, including: IMM seasonal study, UST auction dates/PMI/ESI vs. yields. Developed CTA-style systematic strategies (MA/BB with variable positioning & drawdown management) and used rolling genetic algorithms. Created terminal app to suggest trades and aid manual trading.	Aug '24–Oct '24

Created stock analysis report on Tesla using discounted cash flow model with trade recommendation (gave "underweight" rating). Worked with Senior Portfolio Manager to analyze findings and develop [report]().	Singapore Sep '21–Jan '22

BlueCrest Capital Management, Hedge Fund *Intern*	Singapore
Developed software (locally-hosted, used JavaScript/HTML/CSS for GUI and Python for backend) that analyzes correlations between currencies and derives implied correlations from FX Options Vol market. Software utilized statistics such as Z-score & data from Bloomberg to identify trading [opportunities]().	May '21–Aug '21

ACADEMIC ACTIVITIES

Derivatives/Quant Trading Club & Edge Entrepreneurship *Club Member*	Univ. of Chicago
Quant Trading: covered options, futures, ARMA, non-linear vol models (ARCH/GARCH).	Oct '23–Present
Edge: lectures from CTA, software, and biotech founders. Working on college advising startup.	

Electron Paramagnetic Resonance (EPR) Spectroscopy *Researcher*	Singapore
Worked with Prof. Doros Petasis, Allegheny College, PhD Carnegie Mellon University. Analyzed EPR spectra of DPPH and $MnCl_2$ to deduce electron structure, published research [paper]() in JSR.	Sep '22–Oct '22

Quantum Computing *Researcher*	Singapore
Explored quantum computing under guidance of Prof. Ching Hua, National University of Singapore (NUS). Built and compared portfolio optimization algorithms through Qiskit software on IBM's quantum computer, documented in working [paper]().	Oct '22–Jan '23

AWARDS

NGO Leadership Award *CMO Asia*	Singapore
Selected for [award]() across Asia for "contributing value & making a change" with my non-profit	Aug '22
Passion to To Serve. Jury included ex-president of 'The Economic Times' and other leaders.	

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 Swee Keat, Deputy Prime Minister of Singapore for work by my non-profit, among other activities.	Jul '22

LEADERSHIP

Passion To Serve, a Non-Profit *Founder and Chief Executive Officer*	Singapore
Built [organization]() to tackle inequality in education and access to essential items. 150 volunteers, and board of directors. Served around 6,500 total [beneficiaries](), collaborated with Singapore's Ministry of Manpower (US$ 100,000+ in-kind funding) and 8 NGOs.	May '20–Present

Shan You, a Non-Profit in Singapore *Volunteer and Innovator*	Singapore
Ideated and developed automated software solution (with Python) as alternative to previously manual website data scraping process. 3 days of manual data work could now be completed in 90 minutes. "It is a major breakthrough to help to speed up work" – Shan You.	Nov '19