WEI (ANDY) YUAN

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EDUCATION

Expected 12/23	 NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance Coursework: derivatives pricing, stochastic processes, time series a linear regression, Fama-French, Black-Scholes, Greeks, interest rat optimization, Brownian motion, fast Fourier transform, decision tra- Upcoming Coursework: CNN, RNN, LSTM, Transformer, Hidden 	New York, NY analysis, SVM, OOP, te models, ee Markov Model	
08/18 - 05/21	 INDIANA UNIVERSITY B.S. in Mathematics, B.A. in Economics with High Distinction <i>Coursework:</i> statistics, ODEs, econometrics, multi-factor models, <i>Award:</i> James E. Moffat Scholarship (Highest GPA in Economics) 	Bloomington, IN time series models Department in 2020)	
EXPERIENCE			
05/23 - 08/23	LINGJUN INVESTMENT MANAGEMENT PARTNERSHIP Beijing, China Alpha Research Intern (Python) • Researched Chinese A-shares at 5-minute intervals for >500 data fields (e.g., limit order book, order flow, price, volume) at this quant hedge fund with \$10B AUM • Developed multi-process framework for sensitivity testing of high-frequency factors in Linux, enabling 40% improvement in Sharpe ratio (e.g., volatility factors) • Cleaned tick-level stock data and aggregated it into 5-minute fields, adding 7 new factors to firm's alpha pool		
09/21 - 03/22	 GALAXY DERIVATIVES CAPITAL MANAGEMENT Shanghai, China Quantitative Analyst Intern (Python) Designed and backtested futures trading strategy, with Sharpe ratio of 2.1, by using fundamental data and Backtrader library Constructed multi-factor model and factor analysis structure that analyzed performance of fundamental and technical factors of chemical commodities futures Applied Markowitz's mean-variance and risk parity techniques to optimize fund allocation for futures trading strategy, which decreased maximum drawdown to 5% 		
09/20 - 10/20	 ALLIED MILLENNIAL PARTNERS Quantitative Analyst Intern (Python) Analyzed Charles Schwab Corporation's common stock returns usitested whether they achieved weak efficient market criteria Created dummy variable model and examined seasonality in finance exploiting ordinary least squares regression Charted data (e.g., PE ratio, ROE) of Schwab compared to other finance for the state of the s	D MILLENNIAL PARTNERS New York, NY ative Analyst Intern (Python) Analyzed Charles Schwab Corporation's common stock returns using AR(1) model; tested whether they achieved weak efficient market criteria Created dummy variable model and examined seasonality in financial markets by exploiting ordinary least squares regression Charted data (e.g., PE ratio, ROE) of Schwab compared to other financial services firms'	
PROJECTS			
07/23 - 08/23	 NYU COURANT Time Series Analysis for 14 Portfolios (Python) Analyzed daily returns from 14 portfolios in multiple market enviro Built ARIMA, GARCH, and SVR models to forecast portfolio reture 6-month periods; found SVR model worked best – mean square erre Rebalanced portfolios monthly with applied risk parity, mean-varia Black-Litterman; achieved 1.8 Sharpe ratio (by applying mean-variant) 	New York, NY onments (2005 - 2022) urns for 1-, 3-, and ror (MSE) was smallest unce optimization, and iance optimization)	
01/22 - 03/22	 BARUCH COLLEGE Options Pricing System (C++) Built options pricing system with Boost and STL libraries, and OO Used exact pricing for European and perpetual American options: 1 	New York, NY P technique built Greeks functions	

Used exact pricing for European and perpetual American options; built Greeks fu
 Applied Monte Carlo and finite difference methods for pricing European options

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C++, MATLAB, VBA, SQL, Linux Languages: English (fluent), Mandarin (native) Activity: North American Debate Contest for Chinese University Students (team ranked #2 of 20)