

Wenya (Steve) Zhou

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Motivated Economics & Computer Science student with proven data analytics and business communication skills. Seeking a position in the field of data science or business analytics, to leverage innovative problem-solving skills and produce data-driven solutions

Education

University of Virginia - Bachelor of Arts, Echols Scholar	06/2020-06/2024 (expected)
Cumulative GPA: 3.97/4.00	
Core Courses: Probability, Auction theory, Statistical analysis, Econometrics, Discrete mathematics, Linear algebra	
Statistics Project: evaluate how gender equality affects regional economic prosperity by Monte Carlo simulations and Kendall test	
Economics Project: develop mathematical models for California Department of Transportation (Caltrans) infrastructure auctions based on 5k+ historical bidding records; assessed the cost of the current small-business preference program to be a 3.98% rise in payment; refute the proposal of introducing an optimal reserve price by empirically evaluating its cost-saving effect to be only 3.94%	
Nanjing Foreign Language School – International Baccalaureate Diploma (IBDP)	09/2017-05/2020
IBDP Score: 44/45; SAT Score: 1520/1600; TOEFL: 114/120	
Honors: NFLS Five-Star Student (2020); AP Scholar with Distinction (2019); NFLS Gold Student Award (2018)	

Experiences

Analyst Intern	Shenwan Hongyuan Securities Co. Ltd., Beijing	06/2021-08/2021
➤ Conducted quantitative analysis to offer daily suggestions on building investment portfolio of 20+ stocks, bonds, and futures, using an independently developed Python program to synthesize insights from inter-departmental meeting and historical data		
➤ In a 16-page study on mobile application, reported visibility and simplicity design as the primary problems through a comparative analysis, integrating random surveys of clients with 6 app-design frameworks proposed by prof. Lucy Lockwood		
Student Researcher	Business Analytics in Data-Science Approach, USC	04/2021-09/2021
➤ Attended lectures and discussed applications of biz-analytics models, including customer value measure, market segmentation, fraud score, etc., as a member of the business solution provision team advised by prof. Stephen Coggeshall from USC		
➤ Studied data-science methodologies, such as boosted tree, clustering, neural net, and ARIMA model, with 3 real-world cases: a supermarket's customer segmentation, a P2P lending firm's loan risk assessment, and a Portuguese bank's targeted marketing		
➤ Drafted a research paper on a non-parametric way of assessing the level of regional economic development around the world, applying K-Means clustering algorithm to assist business and policy decisions. Published by IEEE CPS: ICCSMT 2021		
Interim Leader	The Economist Forum (TEF)	08/2020-07/2021
➤ Drafted agenda for weekly sessions and led discussions on various socio-economic topics, including the effect of Brexit on the industrial structure of the UK, the forecast on future trends of Chinese IPOs in American stock markets, and etc.		
➤ As the interim leader, adopted Slack and Trello to transform TEF from a school club to an international platform for economic discussions, attracting more than 50 active participants from US, Japan, UK, China, UAE, and other places of the world		
Mechanics Designer	Organizing Committee of <i>Wisdom Nanjing</i> Competition	05/2020-08/2020
➤ Contributed 40+ hrs of work as a primary designer for the civilization-simulating competition <i>Wisdom Nanjing</i> , ver. Beta		
➤ Co-hosted 4 rounds of beta tests over 9 weeks, analyzed test data to facilitate launching of 5 patches with balance changes		
➤ As a team mentor and judge, assisted the in-person holding in July 2020, which lasted 80+ hrs. and invited 40+ participants		

Awards

➤ Harvard Business School Chinese National Case Competition – Team 1 st in Case Writeup, 3 rd in Analysis Report	5/2020
➤ National Economics Challenge (AS Division) China Finals – Top 5 Scoring Challenger, Gold Award (Top 1%)	3/2019
➤ CEMC Euclid Mathematics Competition, University of Waterloo – Certificate of Distinction	4/2018

Skills

- **Language:** Chinese (Native), English (Fluent), French (A1)
- **Software:** Microsoft Office (Word, Excel, & PowerPoint), Python (proficient with Pandas), R (intermediate with ggplot2 & tidyverse), Matlab (beginner), Stata (experience with regressional analysis)

Interests

Mahler Symphonies | DofE-like Activities | Sid Meier's Civilization Series | Travelling | Formula One Racing | Premier League Soccer