

Carter Tran

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EDUCATION

University of California, San Diego

San Diego, CA

B.S. in Data Science, Math-Economics

Sep. 2023 - June 2027

- 4.0/4.0 GPA, Provost Honors x3
- Relevant Coursework: Theoretical Foundations of Data Science, Data Structures and Algorithms, Probability, Honors Linear Algebra, Differential Equations, Multivariable Calculus

EXPERIENCE

Quantitative Finance Research Consultant

May 2024 - Present

WorldQuant

Old Greenwich, CT

- National Finalist in International Quant Championship 2024, Gold Medalist in WorldQuant Championship
- Research, implement, and backtest equity trading strategies to be considered for portfolio integration
- Present alpha research to high level portfolio managers and executives

Data Science Instructional Assistant

Mar. 2024 - Present

Halicioğlu Data Science Institute

San Diego, CA

- Instructional Assistant for DSC 20: Programming and Data Structures for Data Science
- Update and maintain course website, automate deployment via Github pages
- Apply an understanding of Python in weekly office hours and via online question-answering platform

Executive Board Member

Oct. 2023 - Present

Triton Quantitative Trading

San Diego, CA

- Compete in Open-Quant League Competition, implement momentum strategy, optimize portfolio with Monte Carlo simulation in QuantConnect
- Learn and apply statistical analysis and machine learning techniques to forecast on financial time series data
- Implement strategies using sklearn, yfinance, quandl, pandas, jupyter, QuantConnect

Data Analytics Intern – Veterinary Relations

Summer 2022

Nationwide Mutual Insurance Co.

Columbus, OH

- Applied Natural Language Processing techniques to clean and standardize vendor data in Salesforce
- Leveraged PL/SQL and Excel to analyze claims data, producing actionable policy insights
- Visualized data with R and Python by creating charts and graphs to represent my research

PROJECTS

Algorithmic Trading Bot | *Python*

June 2024 - Present

- Develop trading algorithms on QuantConnect leveraging quantitative techniques and real-time data feeds
- Implement and backtest various trading strategies, optimizing parameters to improve performance metrics such as Sharpe ratio, drawdown, and annualized return

Tennis Match Prediction | *Python, JavaScript*

July 2023 - Present

- Asynchronously scrape data with playwright to load dynamic content
- Reverse-engineer relevant tennis websites to reduce proxy bandwidth usage and save costs by around 83%
- Analyze past tennis matches to identify trends for feature engineering
- Backtest statistical and machine learning models against past odds from bookmakers
- Automate the process to update with new tennis results and odds daily

TECHNICAL SKILLS

Languages: Python, SQL, Java, C++, JavaScript, HTML/CSS

Skills: Git, Github, Jupyter, Microsoft Office (Excel, Word), Salesforce, Linux/Unix, SSH

Certifications: DeepLearning.AI Machine Learning Specialization, NYUx MicroBachelors in Programming & Data Structures