

Nicholas Hazzard

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SUMMARY

Quantitatively focused individual skilled in data analysis, communication, and programming. Seeking an opportunity to leverage exceptional problem solving ability and technical background in a data-driven environment.

EDUCATION

California Polytechnic State University - San Luis Obispo

BS, Mathematics

- GPA : 3.86
- Expected Graduation Date : June 2027
- Relevant Coursework : Multivariable Calculus, Linear Algebra, Physics, Statistics, Linear Analysis, Differential Equations, Computer Science

PROJECTS

FantasyLine

- Designed Python pipeline ingesting 500+ weekly NFL sportsbook player props
- Constructed point projection system converting sportsbook odds into implied probabilities to generate PPR fantasy point projections for 200+ NFL players

NFL Touchdown Regression Visualization

- Created linear regression model using volume and yardage features to identify players likely to experience significant touchdown regression in the following season
- Generated interactive Tableau dashboard that provides users draft insights by visualizing correlations between touchdown rates and overperformance/underperformance for RBs, WRs, TEs

Swarm Intelligence Trading Agent

- Engineered algorithmic trading ensemble that uses swarm intelligence to optimize investment strategy selection based on recent performance and market trends
- Examined real-world trading profitability across 11 assets and achieved positive annual returns for 82% of tested tickers on 6 month testing period

EXPERIENCE

San Diego Elevate Baseball Club - Coach (Part-time, 2023-2024)

- Managed training and development for 6 club teams ensuring practice plans optimized player development
- Performed statistical analysis on 100+ athletes performance data (i.e. batting splits vs. LHP and RHP) to create data-driven lineups
- Applied mathematical framework to hitting mechanics, emphasizing launch angle correlation with base hit probabilities

Cal Poly Quantitative Finance Club - Member (2025-Present)

- Develop statistical and machine learning models in Python
- Backtest trading strategies and analyze annual returns, sharpe ratios, and trading frequencies
- Collaborate on methods for solving statistics/probability problems from OpenQuant

Ralphs - Courtesy Clerk (Part-time, 2022-Present)

- Foster meaningful interactions with customers to promote customer retention
- Manage incoming truck load inventory, ensuring that store expectations for incoming products are met

TECHNICAL SKILLS

- Python (NumPy, Pandas, Matplotlib, Seaborn), SQL, Tableau, JMP, Jupyter Notebook, Google Colab