

JOSEPH SOTOMAYOR

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EDUCATION

Villanova University (Villanova, PA)

- Master of Science of Analytics: **GPA: 3.44/4.0** August 2020
- Bachelor of Arts of Economics, Fluency in Information Technology Certificate May 2018

Saint Anthony's High School (South Huntington, NY)

- GPA: 3.8/4.0**; National Honor Society; 4x Duns Scotus Award Recipient (Given to students with an exceptional GPA) June 2014

TECHNICAL SKILLS

- Proficient in R, SQL, Python, Microsoft Azure, TypeScript, JavaScript, Angular, Alteryx, Tableau, JMP, Excel
- Adept in the performance of data mining to uncover patterns essential in transforming data into actionable intelligence
- Skilled in regression analysis, logistic regression analysis, and ANOVA to gain deeper insight into the relationship of variables
- Constructed machine learning models and simulation models to replicate real-world systems and to make predictions about the future
- Developed optimization models to determine best input variables to minimize or maximize an objective function

WORK EXPERIENCE

KPMG-Tax Ignition, Full Stack Engineer/Data & Analytics Associate (New York, NY)

January 2021 – Present

- Work on a team developing NLP applications that extract valuable tax and financial information from text data
- Consistently learn new programming languages on the fly to boost contributions to my team (Typescript, Python, C#)
- Receive mentoring from UI, ML, and backend engineering experts
- Design and build front end architecture to optimize data flow, data accuracy, and user experience
- Integrate custom-built APIs to retrieve and record data to perform data manipulation using Typescript, C#, SQL, and CosmosDB
- Perform high volumes of ETL on large datasets using Python and Alteryx to ensure usability
- Construct storytelling data visualizations using JavaScript
- Build tools to automate integral tax functions and calculations to identify tax benefits amounting to billions of dollars using Alteryx

Roxboro Inc, Data Analyst (Part time 15hr/week)

January 2020 – Present

- Gather real estate data from various sources and perform ETL process to produce complete datasets to be used for analysis
- Applied statistical methods to uncover how a single-family property's attributes affect its value using Python and R
- Perform data mining process and develop machine learning models to discover patterns in real estate data using Python and R
- Underwrite and perform intensive due diligence on each prospective property to calculate financial impact of investment

J.P. Morgan Chase, Advisor Development Program (Woodbury, NY)

May 2019 – September 2019

- Worked alongside experienced financial advisors, identifying financial objectives of individual investors with account sizes ranging from \$500,000 to over \$1,000,000, and aligning them with suitable investment products
- Developed unique tax sheltering strategies to protect the wealth of high-net-worth investors during account rollovers
- Increased investment acumen through monthly remote/virtual trainings with rotating, investment specific themes

MassMutual-uFinancial Group, Wealth Management Intern (Philadelphia, PA)

June 2017 - May 2018

- Highest performing intern in the Philadelphia office, adding 7 clients to the team's book of business
- Organized and initiated marketing strategy, scheduling meetings to discuss financial goals and wellness with prospective clients

PROJECTS

Binary Options Research (Crude Oil, Forex), Personal Project

Fall 2019-Present

- Collect Crude Oil and Forex data from a variety of sources and manipulate into desirable formats for analysis using python and R
- Implement Neural Networks, ARIMA, and Monte Carlo to forecast prices of assets (Scikit-learn, TensorFlow, PyTorch)
- Apply regression, ANOVA, and ML to study how news and tweet sentiment relates to movements in price using R (Syuzhet)

Analysis of College Football Productivity and NFL Productivity, Personal Project

Summer 2021

- Used R and Python to uncover most significant indicators of NFL productivity by position through data mining process

Investment Portfolio Optimizer, Personal Project

Spring 2021

- Designed optimization model to help guide personal investment account using python (PyPortfolioOpt, Pandas, NumPy)

ATHLETICS & VOLUNTEERING

Varsity Athlete, Linebacker, Villanova University Football Team

June 2014 – December 2018

- National College Athletic Association (NCAA) Division 1 football player – 2014 National Quarter Finalist
- Pushed self to become an elite-level athlete while balancing a 50+ hour per week commitment with a full course load
- Voted **Keeper of the Flame** by teammates – an award given to the player that relentlessly improves themselves and others, on the field, in academia, and the community

American Jiu Jitsu Black Belt

- 2010 North American and East Coast Grappling Champion; ~10 years of rigorous training developing self-discipline and persistency

Andy Talley Bone Marrow Foundation Ambassador

September 2014 – May 2018

- Registered several thousand students in the "Be The Match" Bone Marrow database leading to 300+ transplants

OTHER INTERESTS

- Roman history enthusiast, reading about Quantum Physics, avid weightlifter, learning basic German and Japanese, culinary arts