

# Zach Schaffer

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<b>Education</b>	<b>Cornell University</b> <b>College of Engineering, Class of 2022</b> Candidate for B.S. and Master of Engineering degrees in Operations Research and Engineering <ul style="list-style-type: none"><li>Relevant Coursework: Tools in Data Science &amp; Machine Learning, Financial &amp; Managerial Accounting, Statistical Computing, Time Series Analysis, Statistical Data Mining, Spreadsheet Modeling</li><li>Jack and Linda Muckstadt Graduate Award for ORIE Master of Engineering Excellence Recipient</li></ul>	<b>Ithaca, NY</b> <b>GPA: 3.31</b>
<b>Experience</b>	<b>E&amp;J Gallo Winery</b> <b>Graduate Project Team Member</b> <ul style="list-style-type: none"><li>Lead a project team of myself and four Graduate students for E&amp;J Gallo Winery's data science department</li><li>Complete a time series analysis project using demand forecasting methods to predict future product demand in Python, develop a professional report, and presentation for executives of the company</li><li>Organize communication and meetings with our internal project advisor and winery representative</li></ul> <b>Hunova (Formerly Meaning Bot Inc.)</b> <b>Summer Associate Intern</b> <p>(Hunova is an artificial intelligence company which combines machine learning and psychology to develop personality and risk assessments on people to help companies better understand their employees.)</p> <ul style="list-style-type: none"><li>Worked directly with the CEO and other executives, shadowing meetings and completing daily tasks</li><li>Completed a model error analysis project using Python (Pandas, Numpy, Seaborn) to efficiently produce statistics and visualizations for IO psychologists to analyze and gain insights on model behavior</li><li>Researched GDPR requirements to assist the company in developing a compliance plan for the future</li></ul> <b>Tre Pizza Pasta Beer Garden</b> <b>Server</b> <ul style="list-style-type: none"><li>Work as part of a team with people from diverse backgrounds and non-English speakers</li><li>Memorize the menu as well as the assortment of wine, liquor, and beer to adequately serve customers</li></ul> <b>Cooper Electric</b> <b>Hardware Service Assistant</b> <ul style="list-style-type: none"><li>Customized orders for customers, e.g. cutting strut and assembling electrical boxes</li><li>Processed shipments of broken tools from all Cooper Electric branches to be sent to the repair center</li><li>Organized repaired tools to be shipped back to respective branches</li></ul>	<b>Remote</b> <b>Dec 2021 – Present</b> <b>Remote</b> <b>June 2021 – Aug 2021</b> <b>Freehold, NJ</b> <b>Dec 2020 – Present</b> <b>Monroe, NJ</b> <b>Mar 2020 – Aug 2020</b>
<b>Leadership</b>	<b>Vice President, Chi Psi – Alpha Psi Fraternity</b> <ul style="list-style-type: none"><li>Lead position holders and ensure of the fraternity's compliance with University and City Ordinances</li><li>Oversee meeting agendas and schedule Programs for Excellence to teach members life skills</li><li>Organized and led a total of 200 community service hours that the brotherhood provided in assisting Cornell University with the freshman move-in process during the fall semester</li><li>Received the Bert Harmon Merchant Award (Brother of the Year) for my leadership and dedication to our organization</li></ul> <b>Recruitment Chair, Chi Psi – Alpha Psi Fraternity</b> <ul style="list-style-type: none"><li>Led the recruitment of new members and managed a budget of \$30,000</li><li>Developed a creative plan consisting of multiple events to engage new members</li></ul>	<b>May 2020 – May 2021</b> <b>Aug 2019 – Feb 2020</b>
<b>Projects</b>	<ul style="list-style-type: none"><li>DTMC simulation modeling a perishable product inventory using the Monte Carlo method (Python); trained a neural network to optimize the discounted profit (TensorFlow)</li><li>Attained prior fantasy football data and used low rank models to impute missing data, and statistical ML methods including OLS, Lasso, and Quantile regression to project fantasy football points (Julia)</li></ul>	
<b>Skills</b>	<ul style="list-style-type: none"><li>Python, Julia, Java, MATLAB, SQL, Tableau, R, Microsoft Office</li></ul>	
<b>Interests</b>	<ul style="list-style-type: none"><li>Data Analytics, Statistics, Machine Learning, Soccer, Volleyball, Poetry, Fishing</li></ul>	