

BAILEY WEI

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Education	CORNELL TECH AT CORNELL UNIVERSITY Master of Engineering in Operations Research and Information Engineering Data Science Concentration, May 2020 Honors: Cornell Merit Scholarship <i>Relevant Courses: Applied Machine Learning, Modeling Under Uncertainty, Optimization Methods, Data Science in the Wild, Deep Learning, Natural Language Processing</i> UNIVERSITY AT BUFFALO Bachelor of Science in Industrial Engineering, May 2019 Honors: Cum Laude, Dean's List	New York, NY Buffalo, NY
Experience	NIELSEN <i>Data Science Intern</i> 06/2019 - 08/2019 <ul style="list-style-type: none">Developed random forest, k-NN, and logistic regression models to identify hard-to-survey households; reached 40 percentage point increase on F1 score versus previous modelEnhanced data preprocessing methodology to potentially save up to \$300K annually through reducing discarded radio surveysIncreased machine learning literacy of social science team of 11 by providing relevant project training SENTIENT SCIENCE <i>Predictive Analytic Modeling Intern</i> 02/2019 - 05/2019 <ul style="list-style-type: none">Established visualization library to automate graph creation for wind farms to drive key business decisionsCreated regression models to validate and predict wind turbine failure events to assist data scientists with prediction modelsOptimized data aggregation from Amazon S3 by reducing data acquisition time by 15% per visualization BUFFALO AUTOMATION <i>Industrial Engineering Intern</i> 08/2018 - 02/2019 <ul style="list-style-type: none">Reduced production time of autonomous boat mast by 70% via redesigning the assembly process, saving \$4800 monthlyEnhanced data pipeline of autonomous boat data to improve data ingestion speed by 20% using PythonImproved laborer training time by over 25%, saving 20 hours, through developing a comprehensive training manual NAVIGANT <i>Information Security Summer Associate</i> 06/2018 - 08/2018 <ul style="list-style-type: none">Mitigated data loss by developing a Python script to recover 90+ TB of data from encrypted hard-drivesEstablished cross functional relationships with 3 departments to design an approach for digital evidence encryptionLed team of 3 interns to successfully develop a proposal for a health-wearables client	Columbia, MD Buffalo, NY Buffalo, NY New York, NY
Skills	Python, R, SQL, Swift, C++, MATLAB, Tableau, Six Sigma Green Belt	
Leadership	Community Service Chair at SASE, Teaching Assistant at the University at Buffalo	
Projects	ACADEMIC PROJECT WITH JPMORGAN & CO. 08/2019 – Present <ul style="list-style-type: none">Collaborating with a team of Cornell Tech students to predict changing neighborhoods and demographicsUtilizing Yelp and Twitter datasets to develop neural network solutionsConsulting with data scientists & stakeholders to optimize process for real estate investment	