

Experience

DailyPay <i>Data Analyst</i>	Jan. 2021 - Current New York, NY
<ul style="list-style-type: none">Skills used frequently: SQL, Python, Git/GitHub, dashboarding/data visualizations, project management, writing documentation, and more	
Metis <i>Data Scientist</i>	June 2020 - Sept. 2020 New York, NY
<ul style="list-style-type: none">Completed 12-week accredited data science bootcamp, demonstrating skills in Python, SQL, data wrangling, machine learning, and data visualizations	
D. E. Shaw & Co. <i>Treasury Associate/Data Analyst</i>	Aug. 2015 - Mar. 2020 New York, NY
<ul style="list-style-type: none">Managed financing and securities lending for \$30 billion US, Canadian, and Brazil equity strategies, driving improvements in reporting, connectivity with trading desks, and relationships with equity finance and delta one brokersModeled financing and margin costs on Excel when launching new trading strategies or expanding set of banking providers, helping senior managers make decisions on which banks to do business withDesigned and productionized weekly FX PB allocation report, reducing daily margin posted by \$10-50 mnDeveloped borrow rates monitoring report, saving \$4 mn/year in borrow costs from 2018 to 2020Co-authored analysis based on lend income modeling on whether to start lending equities in D. E. Shaw's institutional asset management armOversaw dev projects to create financing metrics dashboard, build rate negotiation savings calculator, and update securities lending UI	

Projects

Forecasting Monthly Superstore Sales with SARIMA Time Series Model	
<ul style="list-style-type: none">Trained, validated, and tested a (0, 0, 0) (0, 1, 1, 12) SARIMA time series model, achieving a test RMSE of \$15k (equivalent to 0.57 std. dev.)	
A User-Empowered Anime Recommender System	
<ul style="list-style-type: none">Utilized content-based and collaborative filtering techniques to make anime recommendationsProductionized recommender system on Flask app, built with Python, HTML, and CSS, where user can control adventurous level of recommendationsBuilt Docker container to deploy web scraping script across multiple Google Cloud instances	
From Despair to Hope: A Sentiment Analysis of Queer and Trans Asian Pacific Islander Blogs	
<ul style="list-style-type: none">Performed NMF topic modeling and VADER sentiment analysis to uncover sentiment trends between beginning, middle, and end of blog postsStored text and metadata scraped from tumblr on MongoDB databaseVisualized document-topic clusters using t-SNE and Plotly	
Optimizing Flight Choices for Punctuality	
<ul style="list-style-type: none">Modeled flight delay probabilities using logistic regression, optimized for precision and recallWrote tips to help travelers choose flights with highest probability of being on-time based on logistic regression model coefficientsCreated SQL database to store and query 5 million+ rows of 2015 U.S. flight data	
Predicting Global Box Office Revenue of Japanese v. American Animated Films	
<ul style="list-style-type: none">Built separate linear regression models for Japanese and American animated films to predict global box office revenueScraped imdb.com data on 3,000 Japanese and American animated films using BeautifulSoup	
Expanding NYC Subway Station Accessibility	
<ul style="list-style-type: none">Combined NYC subway turnstile data with Google Maps API and census data to recommend top 5 Manhattan subway stations to prioritize elevator installation	

Contact

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Education

Yale University
B.A. Humanities (with distinction) 2015
GPA: 3.86/4.00
Cum Laude

Skills

Languages
SQL
Python
HTML
CSS
Experimentation
A/B Testing
Machine Learning
Regression
Classification
Natural Language Processing
Data Tools
dbt
Google Cloud
Docker
Pandas
Numpy
Ski-kit Learn
Statsmodels
Git/GitHub
Spacy
NLTK
Gensim
VADER
BeautifulSoup
Selenium
Data Visualizations
Tableau
Metabase
Flask
Plotly
Seaborn
Matplotlib
Databases/Data Warehouses
Snowflake
PostgreSQL
MongoDB