

EDUCATION

Philadelphia, PA Aug 2019 - May 2022 Aug 2019 - May 2022	University of Pennsylvania <i>Master of Science in Engineering, Data Science</i> <i>Master of Science in Engineering, Computer and Information Science</i> <ul style="list-style-type: none"> Courses: Algorithms & Computation, Big Data Analytics, Machine Learning, Deep Learning, Artificial Intelligence, Computer Vision, Computational Linguistics, Time Series Forecasting, Software Foundations Leadership: Data Science General Assembly, Penn Data Science Group Board
New York, NY Aug 2013 - May 2017 Aug 2013 - May 2017	New York University <i>Bachelor of Arts, Mathematics</i> <i>Bachelor of Arts, Economics</i> <ul style="list-style-type: none"> Courses: Linear Algebra, Probability, Statistics, Econometrics, Differential Equations, Numerical Analysis Honors and Awards: Dean's List, University Honors Scholar (Founders' Day Award)

SKILLS

Programming	Python (PyTorch, Scikit-Learn, NumPy, Pandas, Matplotlib), C++/C, Scala, Java, R
Technologies	SQL, Apache Spark, AWS, Azure Databricks, Git, Docker, Power BI, \LaTeX
Others	Actuarial Exams: SOA Exam P/CAS Exam 1, Languages: Mandarin Chinese, Video: Final Cut Pro, HitFilm

WORK EXPERIENCE

Chicago, IL Jan 2021 - Present	William Blair & Company, L.L.C. <i>Data Science Intern</i> <ul style="list-style-type: none"> Built a data pipeline in Databricks with Python to extract data from different data sources using a combination of Salesforce API and Microsoft Graph API to create data views to be used in Power BI Design a network graph and use centrality algorithms to identify effective relationships between bankers and clients
Boulder, CO Jun 2020 - Aug 2020	The Trade Desk, Inc. <i>Data Science Intern</i> <ul style="list-style-type: none"> Developed a new lookalike modeling feature with Spark and Scala in AWS; this long-awaited function allowed users to customize inputs to the ad campaign optimization algorithm Analyzed 10^8+ rows of unexplored ad group data in Vertica SQL and prototyped a custom multi-target linear regression model to support recommender system with Python; this began as an ambiguous project that was driven to completion and launched company-wide, resulting in 74% increase in ad group performance
New York, NY Jun 2018 - Jul 2019 Jun 2017 - May 2018	Vitech Systems Group, Inc. <i>Solutions Analyst</i> <i>Associate Solutions Analyst</i> <ul style="list-style-type: none"> Collaborated with tech leads to design extensive workflow processes and write new software design documents, advanced functional specifications, and enhancement contracts Self taught PL/SQL and worked with engineers to write and maintain SQL scripts for extracting reoccurring test cases, cutting down regression testing time by 25%
New York, NY Sep 2016 - May 2017	Haver Analytics, Inc. <i>Economic Research Intern</i> <ul style="list-style-type: none"> Compiled, managed, and quality-assured databases covering macroeconomic indicators of Asia-Pacific markets and delivered data upon each release to clients with DOS Added new time-series data to databases and automated data extraction and formatting with DOS

SELECT PROJECTS

Jan 2020 - May 2020	Generating News Headlines Using Deep Learning Abstractive Summarization [paper] [code] [blog] <ul style="list-style-type: none"> Trained a Seq2Seq network in Pytorch on 200,000 news articles to generate summary headlines Improved the network with attention mechanism, teacher forcing, and a pointer-generator; achieved BLEU score of 0.075, outperforming results from main reference paper from 2015 by 0.065
Jan 2020 - May 2020	Artificial Anime Character Design Using Generative Adversarial Networks [paper] [code] [blog] <ul style="list-style-type: none"> Implemented generative adversarial networks in Pytorch with improved training techniques (trained on 21,000 images) to generate artificial anime character designs