

SKILLS

Data Science	Python, SQL, R, Tableau, Spark, PyTorch, TensorFlow, Keras
Cloud	AWS, Microsoft Azure
Data Engineering	Docker, Kubernetes, Kubeflow, Jenkins
Software Engineering	Java, C/C++, Solidity, HTML, JS, CSS, Version Control

PROFESSIONAL EXPERIENCE

Data Engineer <i>Freddie Mac</i>	Jul 2023 — Present <i>McLean, VA (Remote)</i>
<ul style="list-style-type: none">• Spearheaded the creation and usage of custom Docker images, lowering turnaround time for onboarding three teams of over 50 data scientists and streamlining data science workflows• Guided and oversaw upgrades to data infrastructure and software used by data scientists, speeding up model training from over 48 man-hours to just a few minutes• Outlined and initiated the creation of a new automated monthly KPI report generation system, leveraging in-house tools and reducing reliance on external vendors	
Software Development Engineer <i>Amazon</i>	May 2022 — Aug 2022 <i>Nashville, TN (Remote)</i>
<ul style="list-style-type: none">• Discovered inefficiencies in prediction models and revamped them to require a shorter time frame for generating similar forecasts, reducing data storage costs by 55%• Identified and addressed future scalability bottlenecks by splitting one large use case into three separate use cases in the codebase• Overhauled existing forecasting data pipelines and upgraded data flow to accommodate these new use cases	

PROJECTS

Big Data: Politics on Reddit based on the Economy	Dec 2023
<ul style="list-style-type: none">• Conducted analysis on political subreddits to identify trends in user posts, comments, and interactions in parallel with changes in the U.S. economy ❖ Techniques: Data Mining, Data Wrangling, Spark, EDA, NLP, Sentiment Analysis, Linear Regression, Logistic Regression, Random Forests	
MLOps: Credit Card Fraud Detection	Dec 2023
<ul style="list-style-type: none">• Coordinated the development and deployment of a machine learning app that detects fraudulent credit card transactions with an accuracy of 99% ❖ Techniques: MLOps, EDA, Logistic Regression, k-Nearest Neighbors, Decision Trees, SVM, Naive Bayes, Random Forests, Bagging, Gradient Boost, XGBoost, Stacked Models	
Data Visualization: Transportation Accidents in the U.S.	May 2023
<ul style="list-style-type: none">• Led a visual analysis on the U.S. transportation sector with interactive data visualizations of railroad and airplane accidents ❖ Techniques: Data Mining, Data Wrangling, EDA	
Statistical Analysis: Hans Niemann Cheating Scandal	Dec 2022
<ul style="list-style-type: none">• Authored a statistical analysis on a chess cheating scandal to provide insight on the validity of Magnus Carlsen's allegations against Hans Niemann• Engineered statistical models to determine a player's legitimacy ❖ Techniques: Data Mining, Data Wrangling, EDA, Shapiro-Wilk, Kruskal-Wallis, Linear Regression, Multicollinearity tests, Bootstrapping, T-tests	
Machine Learning: Gender Equality in the U.S.	Dec 2022
<ul style="list-style-type: none">• Analyzed gender equality in the U.S. by observing educational, occupational, and societal metrics with supervised and unsupervised machine learning models• Gathered and cleaned structured and non-structured data from government sources and social media with Python and R scripts ❖ Techniques: Web Scraping, Data Mining, Data Wrangling, EDA, Naive Bayes, Decision Trees, Random Forests, SVM, Clustering, ARM, Networking	
Media Playlist Simulator	Dec 2021
<ul style="list-style-type: none">• Launched a Spotify-like Flask app that stores users' log-in information and respective playlists of songs, movies, TV shows, and podcasts with Python and SQL	

EDUCATION

Master of Science in Data Science and Analytics , <i>Georgetown University</i> , GPA: 4.0	Aug 2022 - May 2024
Bachelor of Science in Computer Science and Statistics , <i>Georgetown University</i> , GPA: 3.6	Aug 2019 - May 2023