

SKILLS

Data Science	Python, SQL, R, Spark, Tableau
Cloud	AWS, Microsoft Azure
Data Engineering	Docker, Kubernetes, Kubeflow, Jenkins, Gradle
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 (Hybrid)</i>
<ul style="list-style-type: none">Established an automated monthly report generation system of KPIs for supported data science teams and platformsUpgraded data platform infrastructure via AWS to expedite data ingestion, data pipelining, and data warehousing workflowsSpearheaded the creation of custom Docker images used by various data science teams to enable faster onboarding of resources	
Software Development Engineer <i>Amazon</i>	May 2022 — Aug 2022 <i>Nashville, TN (Remote)</i>
<ul style="list-style-type: none">Improved business scalability and flexibility by revamping the Java back-end to allow API calls and DJS jobs to handle multiple data typesReduced AWS S3 bucket storage needs by 55% by enhancing prediction models to require a shorter time frame for generating similar forecastsFacilitated more targeted forecasting for different vendors by creating new data pipelines and migrating existing model data flows to new AWS databasesRefined the onboarding process to accelerate ramp-up for future hires with detailed tech setup documentation	

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, 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">Led a statistical analysis on a chess cheating scandal to provide insight on the validity of Magnus Carlsen's allegations against Hans NiemannEngineered 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 modelsGathered 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