

### SKILLS

<b>Data Science</b>	Python (pandas, numpy, scikit-learn, scipy, tensorflow, pytorch, nltk, matplotlib, seaborn), SQL (PostgreSQL, MySQL, MongoDB), R (ggplot2, tidyverse), Tableau
<b>Cloud</b>	AWS (API Gateway, Athena, CloudFormation, DynamoDB, EC2, EKS, EMR, EventBridge, Glue, Lambda, RDS, Sagemaker, Step Functions, S3), Apache (Airflow, Arrow, Hadoop, Spark), Azure (Blob, Machine Learning)
<b>Data Engineering</b>	Docker, Kubernetes, Kubeflow, Jenkins, Gradle
<b>Back-end</b>	Java, C/C++, Solidity
<b>Front-end</b>	HTML, JS, CSS
<b>Tools</b>	Version Control (Git, SVN), Jira (Kanban, Scrum), Artifactory

### PROFESSIONAL EXPERIENCE

<b>Data Platform Engineer</b> <i>Freddie Mac</i>	<b>Jul 2023 — Present</b> <i>McLean, VA (Hybrid)</i>
<ul style="list-style-type: none"><li>Upgraded data platform infrastructure through AWS EKS, EC2, and CFTs to expedite data ingestion, data pipelining, and data warehousing</li><li>Initiated onboarding with external vendors and performed cross-coordination new tech ingestion with internal teams</li><li>Created video demos and user documentation on software and feature updates for ease of access and use for data science teams</li></ul>	
<b>Software Development Engineer</b> <i>Amazon</i>	<b>May 2022 — Aug 2022</b> <i>Nashville, TN (Remote)</i>
<ul style="list-style-type: none"><li>Improved business scalability and flexibility by revamping the Java back-end to allow API calls and DJS jobs to handle multiple data types</li><li>Reduced AWS S3 bucket storage needs by 55% by enhancing prediction models to require a shorter time frame for generating similar forecasts</li><li>Facilitated more targeted forecasting for different vendors by creating new data pipelines and migrating existing model data flows to new AWS databases</li><li>Refined the onboarding process to accelerate ramp-up for future hires with detailed tech setup documentation</li></ul>	

### PROJECTS

<b>Data Visualization: Transportation Accidents in the U.S.</b>	<b>May 2023</b>
<ul style="list-style-type: none"><li>Led a visual analysis on the U.S. transportation sector with interactive data visualizations of railroad and airplane accidents</li></ul> <p>❖ <b>Techniques:</b> Data Mining, Data Wrangling, EDA</p>	
<b>Statistical Analysis: Hans Niemann Cheating Scandal</b>	<b>Dec 2022</b>
<ul style="list-style-type: none"><li>Led a statistical analysis on a chess cheating scandal to provide insight on the validity of Magnus Carlsen's allegations against Hans Niemann</li><li>Discovered relevant KPIs in determining a player's legitimacy through EDA and linear regression analysis that shaped the rest of the investigation</li></ul> <p>❖ <b>Techniques:</b> Data Mining, Data Wrangling, EDA, Shapiro-Wilk, Kruskal-Wallis, Linear Regression, Multicollinearity tests, Bootstrapping, T-tests</p>	
<b>Machine Learning: Gender Equality in the U.S.</b>	<b>Dec 2022</b>
<ul style="list-style-type: none"><li>Analyzed gender equality in the U.S. by observing educational, occupational, and societal metrics with supervised and unsupervised machine learning models</li><li>Gathered and cleaned structured and non-structured data from government sources and social media with Python and R scripts</li></ul> <p>❖ <b>Techniques:</b> Web Scraping, Data Mining, Data Wrangling, EDA, Naive Bayes, Decision Trees, Random Forests, SVM, Clustering, ARM, Networking</p>	
<b>Media Playlist Simulator</b>	<b>Dec 2021</b>
<ul style="list-style-type: none"><li>Implemented 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</li></ul>	
<b>ATM Simulator</b>	<b>Dec 2021</b>
<ul style="list-style-type: none"><li>Developed the functions of an ATM, such as handling users' banking details, depositing/withdrawing money, and sending spending reports with Java and Python</li></ul>	

### EDUCATION

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