

Margaret Reed

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EDUCATION

Columbia University

Masters of Science in Data Science

NYC, NY
December 2023

Duke University

Bachelors of Science in Data Science (IDM), minor in Mathematics

Coursework includes: algorithms, programming, machine learning, data visualization, inference, & linear algebra

Durham, NC
May 2022

JOB EXPERIENCE

Columbia University Data Science Institute, *Graduate Assistant*

Sep. 2022 - Present

- Answers emails, assists in event planning / preparation, completes administrative tasks for admissions team

Apple, *Data Engineering Intern*

May - Aug. 2023

- Created a tool to predict compute warehouses for snowflake queries.
- Worked with ML models and a python package with APIs to integrate it with existing pipelines on airflow.
- This tool has projected savings of millions of dollars, as this capability is not provided by Snowflake.
- Placed in the top 3 out of 150 intern groups for the iContest pitch contest.

Duke University, *Undergraduate Teaching Assistant*

Jan. 2021 - May 2022

- Worked as a teaching assistant in two classes: STA199 - Intro to Data Science and CS216 - Everything Data.
- Collaborated with the teaching team at a weekly meeting and actively contributed new ideas on teaching.
- Mentored students for project development.
- Graded, held office hours, led lab sections.

Lenovo, *Data Visualization Intern*

June - July 2021

- Supported migration from Qlik Sense to Microsoft Power BI with the Digital Transformations team.
- Assisted with internal trainings to encourage best practices in data visualization.
- Successfully created a Power BI report with 30+ pages of fully functioning dashboards and best practices content.
- Designed a product for the Lenovo Incubator Project, won *Best Overall Quality Award* and *Peers Choice Award*.

Amazon, *SDE Intern*

May - Aug. 2020

- Learned and adapted to the team's architecture quickly.
- Developed an internal query tool, owning both the frontend and backend aspects of the project.
- Manipulated and queried data from large databases.
- Leveraged skills in Java, JS, and SQL for development.

TECHNICAL EXPERIENCE

Bluebonnet Data, *Political Data Fellow*

Aug. - Dec. 2020

- Trained on political data methods, such as how to work with census data, the voter file, and VAN.
- Served as a volunteer data analyst for a down ballot democratic campaign in the 2020 cycle.
- Provided analyses and insights to help the campaign more efficiently target voters, place ad buys, place yard signs, understand early voting numbers, and understand their district demographics (R, Python).

Duke Bass Connections Team, *Undergraduate Researcher*

Aug. 2019 - May 2020

- In a team of 10, created an RShiny app to model and educate the public about the insights gained by research done in the ELA (Experimental Lake Area). (RShiny, HTML)
- Employed various techniques for data cleaning, multivariate representation, and web development.

Duke DataFest 2019, *Best Visualization*

April 2019

- In a team of 3, created a model measuring fatigue recovery in order for players and their coaches to best understand how to minimize fatigue to improve game performance. (R, Python)
- Won top prize in data visualization for analyzing how women rugby players move around the field during the games in order to identify players. Presented findings at the Durham chapter of RLadies meetup Oct. 2019.

RELEVANT SKILLS

- Proficiency with R, Python, Java, SQL, Snowflake, Git, Scikit learn, Spark, HTML, CSS, JS React, Power BI, DAX, Excel
- Interests in data science, data visualization, data journalism, and tech for social good
- Experience with both remote and in-person collaboration
- Public speaking, communication, social media marketing, digital organization