

# Piper Macke

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Washington, District of Columbia

## Summary

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Self-motivated Data Science student and former Division One athlete with extensive experience in team leadership roles currently expanding skills in real-world data analysis, reporting, and visualization, as well as frontend web development

## Skills

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- Data analysis and visualization in R (RStudio, Posit Cloud), Python (NumPy, Matplotlib, Pandas), and Stata
- Foundational understanding of database management in MySQL, MongoDB, and Neo4j
- Frontend web development using HTML, Javascript, JQuery, CSS, and Github for website deployment
- Introductory machine learning knowledge (clustering, decision trees, calculating entropy, building confusion matrices)
- Excellent written and oral communication with capability to convey complex results in an understandable way

## Education

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### The George Washington University

2020-2024

Bachelor of Science in Data Science • Washington, D.C. • 3.71 GPA

- Presidential Academic Scholarship recipient
- **Dean's List:** Columbian College and Arts and Sciences

## Professional Experience

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### U.S. House of Representatives | Undergraduate Fellow

06/2023 - 08/2023

- Reviewed and summarized hearings, interviews, and investigations led by the Select Subcommittee on the Coronavirus Pandemic in a punctual and deadline-oriented manner
- Attended and contributed to discussions with members of Congress, panels comprised of Chiefs of Staff, and full committee briefings and meetings
- Analyzed and edited hearing transcripts, guidances, interviews, and memorandums

## Athletics and Leadership

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### Division One Women's Basketball Player

2020-2023

The George Washington University • Washington, D.C.

- Balanced 20-40 weekly hours alongside several travel days a month of athletic obligations in addition to academics
- Scheduled regular meetings with coaches to analyze personal weaknesses and earn playing time as a walk-on
- Influenced prospective student-athletes by leading campus tours and prioritizing their well-being throughout the entirety of their visit
- Member of LEAPP (Leadership Excellence: Acquire, Practice, Perform) alongside other specially chosen university athletes for their leadership ability

## Projects

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### Politics in Crime • Multiple Regression Analysis of Political Leaning and Crime

Fall 2023

Paper examining the link between political leaning and reported frequency of specific crimes in the U.S. using a World Values Survey dataset to conduct a regression analysis in Stata

### Assessing Division One Potential • Predictive Basketball Data Visualization

Spring 2023

Comprehensive RStudio data visualization leveraging a Github dataset of 14,000+ women's college basketball players and comparing key variables to determine probability of a high schooler playing Division One in college

### RecipeGram • Frontend Web Application for Recipe Trading

Fall 2023

Hypothetical profitable business where users can earn in-app currency through engagement, developed as a frontend web application to showcase proficiency in HTML, Javascript, JQuery, and CSS

### Working Portfolio • Personal Quarto Website Coded in Posit Cloud

Current

In-progress website containing other written and technical works that can be accessed at

<https://pipermacke.github.io/piperwebsite/>