

William Andrews

www.linkedin.com/in/william-andrews-92b5a4291 | wtandrews@wm.edu | 703-501-4428 | Alexandria, Virginia
<https://github.com/William-Thomas-Andrews> | <https://www.flickr.com/photos/200733821@N07/>

PROFESSIONAL SUMMARY

William & Mary student with a passion for data science, currently advancing skills in languages including Python, R, HTML, CSS, skills in machine learning, and advanced mathematics. Focused on data-driven decision making, adept at using Python for computational problem-solving in data science, and proficient in R, with a solid grasp of statistical analysis for real-world business and/or research scenarios. Countless hours spent on personal projects starting in highschool using R to optimize golf skills for competitive play, to now consistently working on new projects every week in advanced topics like data analysis.

WORK EXPERIENCE & PROJECTS

PDF Scraping Program (Python)

- Worked with the startup company Compliancy to develop a program that checks whether roofing permit pdfs in specific Florida municipality websites have changed, downloads the changes, and makes necessary adjustments, since these documents often are changed without notice.
- Aimed at helping Compliancy get new updated roofing permits to roofers, of whom it is their goal to help pull permits faster.

Large Language Model Detector (Python)

- Used Natural Language Processing to wrangle a dataset of almost 800,000 pieces of text generated by humans or LLMs.
- Created a Bidirectional Neural Network that predicts authors of inputted essays.
- Model accuracy: almost 90%. I expect this to increase as I make general improvements and train for longer periods of time.
- Can be applied in academia to help prevent GPT plagiarism.
- Soon to be deployed on a website.

Auto-Enrollment-Checker (Python)

- Created a Python program that every 5 minutes goes to my course registration site and checks whether a course is available.
- If a spot opens up, the program sends me a notification through a Telegram API.
- Used this when a desired class was full and I wanted to know as soon as possible when a spot was open to sign up.

Personal Website (HTML, CSS, JavaScript)

- Coded my own professional/academic website using HTML, CSS, and JavaScript: <https://william-thomas-andrews.github.io/>.

Numerous Data Analysis Projects (Python and R)

- Performed many data and machine learning analyses that can be found on my github account.

EDUCATION

The College of William & Mary | Williamsburg, Virginia

Expected Spring 2027

Bachelor of Science | 1st Major: Mathematics | 2nd Major: Computer Science

Awards: Dean's List **Math GPA:** 4.00 **CS GPA:** 4.00

Total GPA: 3.81

Woodberry Forest School | Woodberry Forest, Virginia

Fall 2019 - Spring 2023

High School Diploma

Awards: Walker Scholar, Honor Roll, Varsity Golf Letter

Total GPA: 4.09

RELEVANT COURSES

Adv. Multivar. Calc. Data Structures Discrete Math Computer Organization OO Prog. in Java	W&M	Fall 2024
Calculus II Linear Algebra Directed Research in Data Science	W&M	Summer 2024
Intro to Data Science Data-Driven Decision Making	W&M	Spring 2024
Programming for Data Science Business Statistics	W&M	Fall 2023
Money-ball Training Camp Prescriptive Analytics	UPenn	Summer 2022

WORK HISTORY

Intern | Compliancy

Summer 2024

Golf Caddie | Burning Tree Golf Club

Summer 2023

Golf Counselor | Hognack Golf Course

Summers of 2021 & 2022

Relevant Organizations: Data Science Society (W&M), Computer Science Club (WFS).

Software Skills: Python, R, C++, HTML, CSS, LaTeX, Google Workspace, Microsoft 365.