William Andrews

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PROFESSIONAL SUMMARY

William & Mary student with a passion for all things math and science, currently advancing skills in languages including Python, R, C/C++, HTML, CSS, skills in computer science, and advanced mathematics. Focused on data-driven decision making, adept at using Python for computational problem-solving in computer 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 strategy for my competitive play, to working on personal projects all throughout the summer and now learning advanced CS and math.

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.

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

**Advanced Multivariable Calculus	Data Structures	Discrete Math	Computer Organization**	**| 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	Hogneck Golf Course**	**Summers of 2021 & 2022**

Relevant Organizations: Club Basketball, Finance Academy, Math Club.
Software Skills: Python, R, C/C++, Machine Learning, HTML, CSS, LaTeX.