William Andrews

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PROFESSIONAL SUMMARY

William & Mary student with a passion for all things math and computer science, currently advancing skills in, Python, R, C/C++, and HTML, and skills in computer science and advanced mathematics. Focused on data-driven decision making, adept at using Python for computational problem-solving and proficient in R, with a solid grasp of statistical analysis for real-world business scenarios. Countless hours spent on rigorous projects, starting in highschool using R to optimize golf strategy for my competitive play, to now learning advanced CS and math and beginning a new software engineer internship at DisinfoLab W&M this fall.

WORK EXPERIENCE & PROJECTS

PDF Scraping Program (Python)
- Worked with the startup company Compliancy to develop a concurrent web-scraping algorithm in a program that checks whether certain roofing permit pdfs in specific Florida municipality websites have changed from old inputs, since these documents often are altered 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%.
- 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

Course	Institution	Term
**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

Position	Term
**Software Engineer Intern	DisinfoLab W&M**	**Fall 2024**
**Software Engineer Intern	Compliancy**	**Summer 2024**
**Golf Caddie	Burning Tree Golf Club**	**Summer 2023**
**Golf Counselor	Hogneck Golf Course**	**Summers of 2021 & 2022**

Organizations: DisinfoLab W&M, Club Basketball, Finance Academy.
Software Skills: Python, R, C/C++, Machine Learning, HTML, CSS, LaTeX.