William Andrews

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Personal Website: https://github.com/William-Thomas-Andrews

PROFESSIONAL SUMMARY

William & Mary student with a passion for all things math and computer science, currently advancing proficiency in C/C++, Java, Python, and skills in computer science and advanced mathematics.

WORK EXPERIENCE & PROJECTS

PDF Scraping Program (Python)
- Worked with the small 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. Deployed parallelized requests in a recursive website crawl algorithm.
- Aimed at helping Compliancy get new updated roofing permits to roofers, of whom it is their goal to help pull permits faster.

Auto-Enrollment-Checker (Python)
- Created a program that once 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 the 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.

Stack-Based Postfix Expression Calculator with GUI (Java)
- Implemented a postfix expression calculator.
- Calculates the answer based on the expression given in the GUI.
- Uses a Java stack class I also implemented.

Youtube Judicial Comment Scraper (Python)
- Worked in a DisinfoLab W&M team to analyze public opinion about recent Mexican judicial reforms.
- Used the Youtube API in a Python program to scrape comments and associated data from selected videos.
- Used sentiment analysis and presented findings in a DisinfoLab W&M Op-Ed piece that will be published soon.

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.

EDUCATION

The College of William & Mary | Williamsburg, Virginia   **Expected Spring 2027**
Bachelor of Science | 1st Major: Computer Science | 2nd Major: Mathematics
Awards: Dean's List   **CS GPA:** 4.00   **Math GPA:** 3.91   **Total GPA:** 3.84

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

**Software Development	Intermediate Linear Algebra	Principles of Prog. Lang	Algorithms**	| W&M |	**Spring 2025**
**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**

WORK HISTORY

**Software Engineer Intern	DisinfoLab W&M**	**Fall 2024 - Current**
**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.
Software Skills: C/C++, Python, Java, data analysis.