

William Andrews

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PROFESSIONAL SUMMARY

William & Mary student with a passion for math and computer science, currently advancing proficiency in C/C++, Java, and Python while applying advanced mathematics in problem-solving.

WORK EXPERIENCE & PROJECTS

Linear Algebra Library (C++)

- Created a basic Linear Algebra Library that supports custom type matrix creation and standard matrix operations.
- Supports arithmetic (for arithmetic-typed matrices), comparison, and assignment operators, along with many more features.

Modular Arithmetic Calculator (C++)

- Implemented a modular arithmetic calculator that performs modulus operations such as: $39 \bmod(10) \equiv 9$.
- It supports comparison, arithmetic, assignment, and many more operators.
- Implemented custom GCD and LCM functions.

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 algorithm for website crawling.
- Aimed at helping Compliancy provide updated roofing permits to roofers more efficiently.

Stack-Based Postfix Expression Evaluator with GUI (Java)

- Implemented a postfix expression calculator.
- Calculates the answer based on the expression given in the GUI through a custom stack class.

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 is set to be published.

Auto-Enrollment-Checker (Python)

- Developed a program to check course availability on my registration site every 5 minutes.
- 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.

EDUCATION

The College of William & Mary Williamsburg, Virginia	Expected Spring 2027
<i>Bachelor of Science</i> 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
<i>High School Diploma</i>	
Awards: Walker Scholar, Honor Roll, Varsity Golf	Total GPA: 4.09

RELEVANT COURSES

Software Development Intermediate Linear Algebra Principles of Prog. Languages 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.