Rebecca A. Jackson

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EDUCATION

Villanova University · BS/MS in Computer Science and BS in Mathematics (GPA: 3.99)   Aug 2023 - May 2027

WORK EXPERIENCE

Teaching Assistant (TA) - Villanova, PA and Remote   Jan 2025 - Present
- **Spring 2025** - Competitive Programming · **Summer 2025** - Data Structures and Algorithms I

Undergraduate Research Assistant - Villanova, PA and Remote   Jan 2024 - Present
- Contributed to 5 research projects, primarily focusing on SHCI (Sustainable Human-Computer Interaction)

Cashier and Food Preparer: The Grand Beach Café - Wildwood, NJ   May 2023 - Present
- Served hundreds of customers daily during summers and trained new employees on procedures/restaurant software

RESEARCH AND PROJECTS

Carbon Calculus™   Jun 2025 - Present
- Hired by a Sustainable Engineering PhD student to create an open-source website to display his findings using ReactJS

The Language of Over-Consumption: Insights from YouTube Haul Transcripts   Jan 2025 - Present
- Performed lexical analysis on transcripts scraped from YouTube Haul videos in Python
- Currently writing a research paper for Villanova's Undergraduate Research Journal

Decoding YouTube's #AntiHaul Phenomenon   May 2024 - Dec 2024
- Performed quantitative analysis and data modeling with Python
- Presented at Villanova's Student Research Symposium and VU Women in Tech Conference

#Haul: Analyzing YouTube Discourse on Over-Consumption & Sustainability   Jan 2024 - May 2024
- Created Python programs utilizing YouTube's Data API to analyze videos, comments, and viewer engagement
- Published in NordiCHI 2024 proceedings: **doi.org/10.1145/3679318.3685373**

Non-Recursive Solution of the Tower of Hanoi   Jan 2024 - May 2024
- Created interactive website using HTML, CSS, and JavaScript to demonstrate our research
- Presented at EPaDel Conference and published in Mathematics Magazine: **doi.org/10.1080/0025570X.2025.2485001**

ACCOLADES, AWARDS, AND HONORS

Phi Beta Kappa, Honor Society: Selected by Villanova Professors   May 2025

ICPC Programming Competition, Division 2: 1st at Competition Location · 8th in Mid-Atlantic Region   Nov 2024

National Merit Scholar   May 2023

LEADERSHIP, TEAMS, AND CLUBS

Girls Who Code, Villanova Chapter - Co-President   Apr 2025 - Present
- Cultivate a community of supportive women through educational, social, and technical meetings

Aspirations in Computing Philadelphia Affiliate - Co-Founder/Leader   Jan 2025 - Present
- Host annual banquet for the Philadelphia winners of the Aspirations in Computing Award by NCWIT

Programming Team - Vice President   Sep 2024 - Present
- Lead weekly meetings and complete coding problems on *Kattis*, individually ranked #4 in Pennsylvania

TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, JavaScript, HTML/CSS
- **Technologies:** Git, GitHub, ReactJS, ReactNative, Various APIs