

Rebecca Ann Jackson

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EDUCATION

Villanova University - Villanova, PA

Aug 2023 - May 2027

- Master's of Science in Computer Science
- Bachelor's of Science in Computer Science, Bachelor's of Science in Mathematics (**GPA: 3.99**)

WORK EXPERIENCE

Undergraduate Research Assistant - Villanova, PA and Remote

Jan 2024 - Present

- Contributed to 4 research projects through Python data analysis, API Integration, and Web Development resulting in 2 peer-reviewed publications in Mathematics Magazine and NordiCHI 2024 Proceedings

Teaching Assistant (TA) - Villanova, PA and Remote

Jan 2025 - Jul 2025

- Served as TA for Competitive Programming and Data Structures and Algorithms providing detailed feedback on assignments for 30+ students and hosting weekly office hours to clarify class concepts

Cashier and Food Preparer: The Grand Beach Café - Wildwood, NJ

May 2023 - Aug 2025

- Served 100+ customers daily and trained new employees on procedures and POS software

PROJECTS

Carbon Calculus™ ~ HTML/CSS, ReactJS, Git, PlotlyJS, GitHub Pages

Jun 2025 - Present

- Selected by a Sustainable Engineering PhD student to build an interactive site showcasing CO₂ research findings
- Preparing presentation for Villanova's Strategic Initiative for Climate, Justice, and Sustainability (SICJS)

Kelly Criterion Simulation ~ HTML/CSS, ReactJS, Git, Google Forms, GitHub Pages

May 2024 - Jul 2024

- Built and deployed an interactive Kelly Criterion simulation web app used by 15+ workshop participants, enhancing engagement and understanding of applied probability

RESEARCH AND PUBLICATIONS

Decoding YouTube's #AntiHaul Phenomenon

May 2024 - Dec 2024

- Performed data modeling with Python and presented poster at VU Women in Tech Conference

#Haul: Analyzing YouTube Discourse on Over-Consumption & Sustainability

Jan 2024 - May 2024

DOI: 10.1145/3679318.3685373

- Implemented Python scripts and API integrations to collect and analyze large-scale YouTube datasets, applying data modeling, text analysis, and visualization techniques
- Published and presented in NordiCHI 2024 Proceedings

Non-Recursive Solution of the Tower of Hanoi

Jan 2024 - May 2024

DOI: 10.1080/0025570X.2025.2485001

- Created an interactive website using HTML, CSS, and JavaScript to demonstrate our team's findings
- Presented at EPaDel Conference and published in Mathematics Magazine

AWARDS AND HONORS

Phi Beta Kappa, Honor Society: Selected by Villanova Professors Based on Academic Excellence and Leadership

May 2025

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

Nov 2024

National Merit Scholar: Top 1% of American High Schoolers

May 2023

LEADERSHIP, TEAMS, AND CLUBS

Girls Who Code, Villanova Chapter - Co-President

Apr 2025 - Present

- Cultivate a community of 50+ supportive women through educational, social, and technical meetings

Aspirations in Computing Philadelphia Affiliate - Co-Founder

Jan 2025 - Present

- Organize annual NCWIT banquet for Philadelphia winners of AiC Award while coordinating outreach for high school students exploring computing careers

Programming Team - Vice President

Sep 2024 - Present

- Lead weekly competitive programming practice sessions for 120+ members, focusing on algorithmic problem-solving in Python, C++, and Java through *Kattis* (Individually ranked #4 in Pennsylvania)

TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, R, JavaScript, HTML/CSS
- **Frameworks/Tools:** Git, GitHub, ReactJS, PlotlyJS, ReactNative, Electron
- **Areas:** AI/ML, Data Visualization and Analysis, Web Development, API Integration, Front-End Development