

# Julia Dymnicki

Data Structures Learning Assistant & Demarest Hall Resident Assistant

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## Education

<b>Bachelors of Science in Computer Science &amp; Cognitive Science</b>	August 2022 - May 2026
<ul style="list-style-type: none"><li>- Rutgers University, New Brunswick NJ</li><li>- Honors College &amp; Douglass Women's College</li><li>- Dean's Scholarship Recipient</li><li>- GPA: 3.7/4.0</li></ul>	

## Professional Experience

<b>Research Assistant for AI-Aided NJ Transit Railroad Trespassing Detection Tool</b>	May 2023 - Present
Professor Asim Zaman - Rutgers University	
<ul style="list-style-type: none"><li>- Developed object detection algorithms after processing 1,632 hours of video footage containing trespassing events at NJ Railroad crossings</li><li>- Reduced preventable train strikes by categorizing 3,004 instances of trespassing over 68 day period to validate AI tool's effectiveness</li></ul>	
<b>Data Structures Learning Assistant</b>	June 2023 - Present
Professor Ana Centeno - Rutgers University	
<ul style="list-style-type: none"><li>- Facilitated the progress of 70+ students weekly in learning introductory programming skills</li><li>- Refined course content &amp; developed instructional materials such as practice problems &amp; sample code for 10 recitation sections</li></ul>	
<b>Tutor for 4 Introductory Computer Science Courses</b>	August 2023 - Present
Project Coordinator Jamie Liao - Rutgers University	
<ul style="list-style-type: none"><li>- Assisted 200 students in debugging Java-based coding conflicts to improve comprehension of algorithmic concepts</li><li>- Motivated students to continue in the computer science field by facilitating review sessions &amp; addressing student concerns</li></ul>	
<b>Lead Proctor &amp; Grader for Introductory Computer Science Course Exams</b>	August 2023 - Present
Professor Ana Centeno - Rutgers University	
<ul style="list-style-type: none"><li>- Streamlined the exam administration process &amp; enforced academic integrity protocols for 500+ students</li></ul>	
<b>Resident Assistant in a LGBTQ+ Dorm</b>	August 2024 - Present
Resident Life Coordinator Emily Green - Rutgers University	
<ul style="list-style-type: none"><li>- Fostered a respectful &amp; inclusive community by mediating roommate conflicts &amp; facilitating social events for 200 residents</li><li>- Managed administrative duties &amp; compliance of university policies by completing 20 incident reports to ensure residents' safety</li></ul>	

## Projects

<b>Heart Transplant Simulator</b>	December 2022
<ul style="list-style-type: none"><li>- Designed a system to select the most optimal patients for a heart transplant based on survivability rate, urgency, &amp; heart condition cause</li></ul>	
<b>File Compression Using Huffman Algorithm</b>	May 2023
<ul style="list-style-type: none"><li>- Reduced average compression times by 30% (5 MB/s) to efficiently reduce file sizes while preserving original data</li></ul>	
<b>Search Engine for News Article Headlines</b>	June 2024
<ul style="list-style-type: none"><li>- Developed a search engine for specific keywords &amp; headlines from HuffPost's database of 100,000 real news headlines from 2012 - 2022</li><li>- Provided as an assignment for 500+ students in an introductory computer science course to receive feedback</li></ul>	

## Extracurriculars & Skills

<b>Alpha Omega Epsilon Social Chair &amp; Panhellenic Delegate</b>	August 2023 - May 2024
Rutgers University	
<ul style="list-style-type: none"><li>- Increased event attendance by 30% through collaboration with other organizations &amp; effective planning strategies</li><li>- Successfully organized 15 major social events, fostering engagement &amp; strengthening sisterhood within the chapter</li></ul>	
<b>Volunteer for Children's Polish School</b>	September 2018 - Present
Frederyk Chopin Polish School - Allamuchy, NJ	
<ul style="list-style-type: none"><li>- Organized 12 cultural events to engage students in Polish traditions &amp; tailored lesson plans for 150 students to aid in language proficiency</li></ul>	

4+Years of Experience in Java, Python, & C	Fluent in Polish & Spanish	Proficient in Git, VSC, & OOD
Proficiency with Microsoft Office Suite	Strong understanding of Data Structures & Algorithms	Focus on Object-oriented Programming