

# Julia Rose Zinkin

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## EDUCATION

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Duke University, Durham, NC | B.S. in Computer Science | GPA: 4.0/4.0

August 2025- May 2029

SAT Score: 1560 (Math 800/ Verbal 760) | National Merit Scholarship Finalist | Valedictorian of Half Hollow Hills High School East

## RELEVANT COURSEWORK

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AP Computer Science Principles (2022), AP Computer Science A (2024), Data Structures and Algorithms (Fall 2025), Introduction to Computer Systems (Spring 2026)

## SKILLS

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**Technical:** Java, Python, R, C, Claude Code, Figma, Cursor, Codex **Dev Tools:** Git, GitHub **Languages:** English, Spanish

## SELECTED PROJECTS AND AWARDS

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**Small Language Model** | Java | Designed and developed a small language model to simulate algorithm of LLMs

**UberKid App** | Figma | Designed a safety-focused ride-share app for minors with real-time monitoring

**Emergen-Q** | The Cube LLC Buildathon | Won the Social Impact Award (\$500) for developing an AI-driven emergency room triage and wait-time prediction system improving transparency and patient outcomes <https://fifty-petal-57644868.figma.site>

**Huffman Compression** | Java | Built a Huffman-based lossless file compression and decompression system using priority queues, binary trees, and bit-level I/O.

## EXPERIENCES AND LEADERSHIP

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### Crohn's and Colitis Foundation

Dix Hills, NY

Leader of Teen Support Group

August 2023 - Present

- Regular meetings with administration for fundraising, research and support group
- Engaging with other teens affected by Crohn's disease or ulcerative colitis to comfort and alleviate stress

### Crohn's and Colitis Foundation

Belmont, NY

2024 Take Steps Pediatric Honored Hero

January 2024 - May 2024

- Raised \$6,500 for Crohn's & Colitis Foundation; Delivered keynote speech at annual fundraiser

### Sunrise Day Camp

Wheatley Heights, NY

Volunteer Counselor

June 2024 - August 2024

- Counselor for children with cancer and their siblings; Create an inclusive environment for campers to escape stresses of home life

### Speech and Debate Team

Dix Hills, NY

Head Captain

September 2021 - June 2025

- Recruit & train members to debate at national level (Princeton, Yale, UPenn, Harvard tournaments)
- Competed in Octofinals at Princeton Varsity debate in Public Forum; 3rd place in NY state competition in JV

### Students Rebuild

Dix Hills, NY

Team Leader

September 2021 - June 2025

- Half Hollow Hills High School East recognized as #1 in the nation for Students Rebuild - most money raised in 2023 and 2024
- Create art that raises money for organizations that work on global issues such as climate change and refugees

## ACTIVITIES

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Campus Enterprises (**Shareholder**); DTech (**VP of Community Development**); FEMMES+ Connect; Duke University Student Dining Advisory Committee; Stony Brook Institute for Advanced Computational Science (**2024 Finalist**)

## RESEARCH

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1. Rabinovich E, Markowitz J, Cerise, **Zinkin J**, Sahn B. *Predicting pediatric inflammatory bowel disease remission utilizing a clinical decision support tool*. Journal of Ped Gastro and Nutr. Feb 2026. 1-6. (also accepted for presentation at North American Society for Pediatric Gastroenterology, Hepatology & Nutrition (NASPGHAN) international conference)

2. *Toxicity with Contemporary Radiotherapy in Patients with Inflammatory Bowel Disease (IBD) Treated for Pelvic Cancers*; Accepted for presentation at international ASTRO conference in Sept 2024; interviewed for *CancerNetwork* medical podcast

## OTHER INTERESTS

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**Tasha's Tummy Monster** | Children's Book | Authored & published children's book to alleviate fears of children diagnosed with Crohn's disease; Available on Amazon, Barnes and Noble, and donated to GI offices