

# Alana Brooke Zinkin

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## EDUCATION

**Duke University**, Durham, NC | GPA: 4.0  
**Half Hollow Hills High School East**, Dix Hills, NY  
SAT Score: 1580 (Math 800/Verbal 780)  
Weighted Average: 99.410

**August 2022- Est. Grad May 2026**  
**September 2018- June 2022**

## RELEVANT COURSEWORK

<b>Computer Science 201: Data Structures and Algorithms</b> at Duke University	Fall 2022
<b>Computer Science 210: Introduction to Computer Systems</b> at Duke University	Spring 2023
<b>Math 218D-1: Linear Algebra</b> at Duke University	Spring 2023
<b>Building and Sustaining an Enterprise</b> at Duke in Silicon Valley	Summer 2023
<b>Computer Science 230: Discrete Math</b> at Duke University	Fall 2023
<b>Computer Science 316: Introduction to Databases</b> at Duke University	Fall 2023

## SKILLS

**Technical:** Java, C, Python, React, HTML, CSS, Adobe Photoshop

**Languages:** English, Spanish

## PROJECTS

**Personal Website** | React | Designed and developed a dynamic personal website  
**Store** | C | Simulates operations of a store manager such as restocking aisles and fulfilling orders  
**KVPair** | C | Implementation of the core component of a key-value software cache  
**NBody** | Java | Simulates the motion of  $N$  objects in a plane, mutually affected by gravitational forces, and animates the results  
**Markov** | Java | Markov model for generating random text, provided a given training text  
**Autocomplete** | Java | Multiple implementations of an autocomplete search program  
**Route** | Java | Routing service that represents the United States highway network as a graph and calculates routes and distances

## HONORS & AWARDS

**National Merit Scholarship Recipient**  
**High School East Top 20**  
**Johns Hopkins Book Award**  
**AP Scholar with Distinction**  
**Gold Medal Long Island Math Fair**  
**Gold Medal National Spanish Exam**  
**Long Island's Best: Young Artists at the Heckscher Museum Winner**

ACTIVITIES	LEADERSHIP	HOURS/WEEK
Created mobile application "Mind Over Matter" currently available in IOS app store	<b>Founder</b> (11th grade)	10 hrs/week
DTech	<b>Health Tech Interest Group Leader</b> (Current)	4 hrs/week
Blue Devils vs Cancer	<b>Member</b> (Current)	2 hrs/week
FEMMES Connect	<b>Mentor</b> (Current)	1 hr/week
National Honor Society	<b>President</b> (12th grade)	1-3 hrs/week
Speech and Debate Team	<b>President</b> (12th grade) & <b>Captain</b> (11th grade)	12 hrs/week
Amnesty International	<b>President</b> (12th grade)	1-2 hrs/week

## RESEARCH

Principle Investigator, Mindfulness, perceived stress, social support and Opioid Use in cancer patients. Accepted for Oral and Poster Presentation at ASTRO (American Society for Radiation Oncology, National Meeting Chicago 2021).

## WORK EXPERIENCE

Duke University Computer Science 201: Data Structures and Algorithms Teaching Assistant	August 2023- December 2023
Town of Huntington Tennis Instructor for adults and children (Huntington, NY)	June 2022 - August 2022   July 2023 - August 2023
Student Consultant for Allergood (Duke in Silicon Valley)	May 2023 - June 2023
Timber Lake Camp Counselor and Tennis Instructor (Shandaken, NY)	June 2021- August 2021
Quarantine Tutors: Virtual tutor during COVID-19 pandemic and continuing thereafter (90 total hours)	April 2020 - June 2022