

# 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 at Duke in Silicon Valley</b>	Summer 2023

## SKILLS

**Technical:** Java, C, Python, Adobe Photoshop    **Languages:** English, Spanish

## PROJECTS

**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  
**Huffman** | Java | Allows for Huffman compression and decompression of a given text file  
**Route** | Java | Routing service that represents the United States highway network as a graph and calculates routes and distances

## HONORS & AWARDS

**National Merit Scholar**  
**High School East Top 20**  
**Johns Hopkins Book Award**  
**AP Scholar with Distinction**  
**Gold Medal Long Island Math Fair**  
**Silver Medal Long 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

<b>Quarantine Tutors:</b> Virtual tutor during COVID-19 pandemic and continuing thereafter (90 total hours)	April 2020 - June 2022
Taught virtual photography class for elementary school children	July 2020 - August 2020
<b>Developed N95 snorkel face mask for physicians at Huntington Hospital, Northwell Health (Long Island, NY)</b>	
Town of Huntington Tennis Instructor for adults and children (Huntington, NY)	June 2022 - August 2022
Timber Lake Camp Counselor and Tennis Instructor (Shandaken, NY)	June 2021- August 2021