

# Alana Brooke Zinkin

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alanazinkin.github.io/PersonalWebsite/

## EDUCATION

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**Duke University**, Durham, NC | GPA: 4.0/4.0

**August 2022- Est. Grad May 2026**

**Half Hollow Hills High School East**, Dix Hills, NY

**September 2018- June 2022**

SAT Score: 1580 (Math 800/Verbal 780)

National Merit Scholarship Recipient

## RELEVANT COURSEWORK

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**Data Structures and Algorithms** (Fall 2022), **Introduction to Computer Systems** (Spring 2023), **Linear Algebra** (Spring 2023), **Building and Sustaining an Enterprise** (Summer 2023), **Discrete Math** (Fall 2023), **Introduction to Databases** (Fall 2023), **Practical Financial Markets** (Fall 2023), **Design and Analysis of Algorithms** (Spring 2024)

## SKILLS

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**Technical:** Java, Python, SQL, XQuery, C, HTML, CSS, Figma, Javascript, MongoDB, LaTeX, Adobe Photoshop

**Frameworks:** React.js

**Dev Tools:** Git, GitHub

**Languages:** English, Spanish

## SELECTED PROJECTS

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**Personal Website** | React.js, Javascript, CSS, HTML | Designed and developed a personal website

**Amazon Storefront** | SQL, Python, Flask | Created and designed storefront where users can buy and sell products

**Store** | C | Simulates operations of a store manager such as restocking aisles and fulfilling orders

**Autocomplete** | Java | Multiple implementations of an autocomplete search program

**Route** | Java | Routing service representing United States highway network as graph; calculates routes and distances

## WORK EXPERIENCE

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**Duke University Computer Science Department**

**Durham, NC**

*Data Structures and Algorithms Teaching Assistant*

August 2023- Present

- Lead engaging discussion sections to reinforce learning
- Host evening office hours to provide academic support
- Attend weekly meetings to stay aligned with course objectives, grade assignments and projects

**Duke in Silicon Valley**

**San Carlos, CA**

*Student Consultant for Allergood*

May 2023 - June 2023

- Engaged in course, "Building and Sustaining an Enterprise," learning from industry professionals about design thinking, prototyping, product management, customer empathy, value-based negotiation, and venture financing
- Consulted for start-up, Allergood, by creating user personas, researching competitors, conducting stakeholder interviews, and collaborating in teams to propose meal recommendation algorithm

**Town of Huntington**

**Huntington, NY**

*Tennis Instructor*

June 2022 - August 2023

- Instructed private tennis lessons, clinics, and group classes for participants of various ages and skill levels
- Collaborated alongside other instructors to curate engaging lesson plans focusing on technique refinement, strategy, and match play
- Developed innovative teaching techniques, such as incorporating music and team-based activities, to make program exciting and memorable

**Timber Lake Camp**

**Shandaken, NY**

*Sleepaway Camp Counselor*

June 2021- August 2021

- Cared for 12-year-old girls for 7 weeks by creating a positive and supportive environment, while also ensuring their physical and emotional well-being
- Built strong relationships with campers, Fostered friendships, mediated conflicts, and addressed homesickness to help campers develop confidence, independence, and interpersonal skills

## ACTIVITIES

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DTech (**Interest Group VP**), FEMMES + Connect (**Exec Board Member**), Blue Devils vs Cancer, Created mobile application "MindOverMatter." currently available in iOS app store (**Founder** (11th grade))

## RESEARCH

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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)