

# Shwetha Kunnam

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## EDUCATION

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### California Institute of Technology

*B.S in Electrical Engineering*

Pasadena, CA

2019 – Present

### Montgomery Blair High School

*Science, Mathematics, and Computer Science Magnet Program*

Silver Spring, MD

2015 – 2019

## SKILLS

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**Programming Languages:** Python, R, Stata, Matlab, Java, HTML, CSS, Javascript, SQL, L<sup>A</sup>T<sub>E</sub>X

## EXPERIENCE

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### Intern

Spring 2021

*HaystackDNA*

- Worked with campaigns to model candidate support and identify potential voters and volunteers
- Generated and organized big datasets and created tools such as a monthly donations tracker for nonprofits and political organizations

### CS2 (Introduction to Programming Methods) Teaching Assistant

Winter 2020/2021

*California Institute of Technology*

- Part of a team of 20 TAs overseeing an introductory CS course of 200 students
- Held at least five office hours and one lab section a week, helping students code data structures in Java
- Helped adjust the class to an online setting and ensured all students had support amidst the pandemic

### Distributed Organizing Intern

Summer/Fall 2020

*Paula Jean Swearengin Campaign*

- Organized texting and calling shifts for Paula Jean Swearengin, candidate for West Virginia US Senator
- Co-managed a team of over 200 texters and organized bi-weekly phonebanks and trainings of up to 50 volunteers
- Created texting scripts and took care of texter and voter concerns, communicating with difficult voters civilly and crafting effective responses to voter and texter queries

### Camp Counselor

Summer 2019

*Mad Science*

- Worked with 15-30 elementary school students each week at a science summer camp
- Introduced principles such as Newton's Laws to campers through fun and informative demonstrations and projects
- Created relevant scientific activities after exhausting camp material and dealt with emergencies and camper needs

### Intern

Summer 2017

*National Institute of Diabetes and Digestive and Kidney Diseases*

- Assisted with ongoing studies, including the Federal Women's Study
- Completed a biostatistics project where the accuracy and reproducibility of diagnostic methods for pre-diabetes were compared, reasons for the differences were identified, and preliminary diagnostic recommendations were made
- Project was presented at the 2018 Pediatric Academic Societies Meeting and published in *Pediatric Obesity*

## PROJECTS

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### FRC Team 449 | Vice President of Communications

2015 – 2019

- Expanded the team's community outreach program from 2 events a year to over 40, including science fair demonstrations, school assemblies, workshops, and programming classes
- Raised the annual budget by 100%, to \$40,000, by applying for grants, fundraising, and sending donation requests
- Pitched and co-organized Chesapeake Bunnybots, an annual competition to facilitate training of novice members

### March Madness Model

Winter/Spring 2019

- Co-created a multiple regression model to predict the results of the 2019 NCAA March Madness Tournament
- Placed 33rd out of 866 teams, in Kaggle's March Madness ML competition under team name *thankunet*

### 2018 House Midterm Model

Fall/Winter 2019

- Assisted in the creation of a model to predict the 2018 House of Representatives elections
- Co-wrote a blog post on whether the predicted surge in Democratic seats was an anomaly or not
- Predictions were on par with experts, our model predicted 19 seats incorrectly, as opposed to 538's 12 missed calls