Shwetha Kunnam

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Education

California Institute of Technology — Pasadena, CA
B.S in Electrical Engineering, Minor in Information and Data Sciences — *2019 – Present*

Montgomery Blair High School — Silver Spring, MD
Science, Mathematics, and Computer Science Magnet Program — *2015 – 2019*

Experience

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 and assisted with enrichment activities
- 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 2018
University of Maryland, Baltimore County
- Used XPPAUT to develop a model of the pancreatic beta cell, adding a PKA-cAMP-Calcium feedback loop to the existing Dual Oscillator Model
- The model's results were compared to experimental data and other beta cell models

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

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

Skills

Programming Languages: Python, R, Stata, Matlab, Java, HTML, CSS, Javascript, SQL, LaTeX