



# RICHA BHATTACHARYA

COMPUTER SCIENCE AND DATA ANALYTICS

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## EDUCATION

### University of California, Berkeley (2018-2022)

*Studying Computer Science and Data Science*  
GPA: 3.62

#### Relevant Coursework:

- Data Structures (Java)
- Designing Information Devices and Systems I
- Structure and Interpretation of Computer Programs (Python, Scheme, SQL)
- Principles and Techniques of Data Science
- Discrete Math and Probability Theory
- Linux System Administration Decal

### The Harker School (2014-2018)

*High School Diploma*  
GPA: 4.0 (Weighted: 4.39)

#### Relevant Coursework:

- Honors Data Structures
- AP Computer Science
- Honors Multivariable Calculus
- Honors Differential Equations
- AP Statistics
- Advanced Programming
- AP Macro and Microeconomics
- AP Biology, Honors Human Anatomy

## AWARDS

- 2018 CalHacks Fellowship
- 2018 National AP Scholar
- 2018 Harker Representative at Gentry Women in Tech Conference
- 2018 Harker Love of Learning Award
- 2017 NCWIT Distinction for Aspirations in Computing
- 2017 National Honor Society
- 2017 National Spanish Honor Society

## SKILLS

Java	<div><div></div></div>
Python	<div><div></div></div>
R	<div><div></div></div>
Scheme	<div><div></div></div>
SQL	<div><div></div></div>
HTML	<div><div></div></div>
MATLAB	<div><div></div></div>
Mathematica	<div><div></div></div>

## COMMUNITIES

- Association of Women in EECS
- UC Berkeley CS61A/B Course Staff
- UC Berkeley Division of Data Sciences
- NCWIT (National Center for Women in Technology)
- Women of Rewriting the Code Fellow
- Phi Sigma Rho Engineering
- UC Berkeley Azaad Bollywood Team

## EXPERIENCE

### UC Berkeley Computer Science Department

*Academic Intern, Aug 2019 - Present*

- Pedagogy Mentoring
- Hands-on application/tutoring in CS61A Labs (2019) and CS61B Labs (2020)
- Helping students enhance their understanding of intensive CS coursework

### UC Berkeley Division of Data Science

*Peer Consultant, August 2019 - Present*

- Mentor for Data Science majors and students, providing guidance toward coursework and technology projects, leading workshops on data analysis

### Association of Women in Electrical Engineering and Computer Science

*Website Developer, Jan 2019 - May 2019*

- Redesigned new website interface with team for use from Fall 2019 using HTML, CSS, PHP, and WordPress

### Spave

*Co-founder, Nov 2018 - July 2019*

- App: marketplace to sell unused discounted food to minimize food waste
- Image capture and analysis leveraging custom-trained Clarafai model to detect different food waste
- Trained Watson chatbot, designed web interface, and developed company through market validation, customer interviews, research, and analytics. This was instrumental in enabling user interactions and enhancing customer experience.
- Won CalHacks Fellowship 2018, receiving funding and mentorship to develop company, exposure to local investors and executive board of SkyDeck
- Won acceptance into Berkeley SkyDeck Hotdesk Program

### UCSF CHIPPER Study (Children Helping Improve Pediatric Practice, Education, & Research)

*Student Data Analyst, Oct 2018 - Apr 2019*

- Project: Pattern analysis in electronic readings of infant crying to investigate trends in infant health for UCSF Chipper Program
- Statistical model creation for hypothesis testing in R (dplyr & ggplot2 packages)
- Generated demographic summary for holistic background of subjects of study
- Submitted to head mentor for presentation driving further research and funding for program

### Stanford University

*Student Researcher & Data Analyst, Jul 2017 - Oct 2017*

- Medical data analysis to measure survival rate of brain cancer patients under features like facility, tumor grade, histology, and more
- Ran Kaplan Meier analysis in R (survival, survminer, ggplot2, & dplyr packages)
- Results inclining toward tumor grade and severity of histology as key features determining survival rate

## LEADERSHIP

### UC Berkeley Azaad Co-Ed Competitive Dance Team

*Choreographer and Instructor, May 2019 - Present*

- Teach and train 25+ dancers in preparation for national competitions.
- Choreograph routine, develop story line, and work with DJs to create mix

### Harker Tutoring Club

*Club President, May 2017 - May 2018*

- Lead and expanded student network to elementary schools
- Recruited 100+ tutors; service used by pre-school to high school students

### Harker Women in STEM

*Publicity Director, May 2016 - May 2018*

- Managed all media and worked with co-officers to organize Annual Research Symposium
- Fundraised to sponsor Hillari's STEM-based education through WiSER, for impoverished girls in rural Kenya