

Parth Shah

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Education

University of California, Berkeley | Class of 2019

- **Major:** Electrical Engineering & Computer Sciences
- **Minors:** Data Science, STEM Education
- **GPA:** 3.7

Courses

- Data Structures, Algorithms, Design, Discrete Math, Information Devices, Circuits, Mechanics, Modern Education, Entrepreneurship, Data Science

Skills

Technical

- Python, Java, Android Studio, Flask
- SQL, R, Pandas, Numpy, SPSS, Tableau
- HTML/CSS, Javascript, React

Design

- Adobe Experience Design, Photoshop, In Design

Experience

Embodied Design Research Laboratory | Data Analyst

Fall 2017 - Present

- Data Analyst for NSF funded project, *Debugging the Failure*, a project studying student mindset in Computer Science
- Used SQL and Python to analyze student mindset for learning computer science and presented visuals using Tableau

ACE Lab at UC Berkeley | Data Analyst

Spring 2017- Present

- Worked in an educational technology lab under Armando Fox in UC Berkeley where I helped develop Autostyle
- Planned and conducted surveys to research opinions and coding style of prospective CS students
- Performed data analysis on over 5,000 students using Python to find correlations

Teaching in Tanzania | Teacher

Summer 2017

- Went to the small town of Shirati, Tanzania and taught math to middle and high school students for a month
- Improved math education in the school by presenting seminars on modern education to current teachers
- Learned how to teach with very limited resources and gained perspective on international education

CalTeach | Student Teacher

Spring 2016 - Present

- Taught math and improved student performance at Martin Luther King Jr. Middle School and Berkeley High School
- Took classes in modern STEM education to receive a teaching credential in mathematics
- Produced interactive lesson plans and taught a diverse group of students

ANova | Curriculum Chair

Fall 2015 - Present

- Non-profit organization that teaches computer science at under resourced schools
- Designed curriculum and taught computer science at after school programs to improve student performance

Projects

Memorang

- Wrote Python scripts to prepare and analyze student data for medical flashcard company, Memorang
- Used SPSS to perform analysis to view correlation Memorang use and student performance

Autostyle

- Style tutor that offers students realistic hints to improve code and learn better coding practices
- Used k-means clustering to cluster student coding responses
- Performed data analysis on student data

Awards

Regents' and Chancellor's Scholar

- Most prestigious scholarship offered to UC Berkeley undergraduates
- Top 2% of incoming class

Noyce Scholarship Winner

- Scholarship for my excellence in teaching
- Selected for my passion for education, innovativeness of lesson plans, and public speaking abilities