

Shayna Kothari

shaynak.github.io | shayna.kothari@berkeley.edu | 510-565-4450

Skills

Programming

Java	R
Python	SQL
Javascript	Apache Spark
HTML/CSS	Scheme
Django	Flask
jQuery	NumPy
Arduino	Jupyter

Computer-Aided Design

AutoCAD	SOLIDWORKS
Fusion360	Inventor

Education

University of California, Berkeley

Aug 17 – May 21; GPA: 3.75/4

*Regents' and Chancellor's Scholar
B.S. Electrical Engineering and
Computer Science, Human Rights
minor*

Relevant coursework:

- Data Structures
- The Structure & Interpretation of Computer Programs
- Linear Algebra and Differential Equations
- The Foundations of Data Science
- Immigration and Data Science

Awards/Honors

Regents' and Chancellor's Scholarship

Awarded highest academic honor granted to incoming students at UC Berkeley, granted to <2% of students at the University.

Jacobs Innovation Catalyst Grant Recipient

Won a Jacobs Innovation Catalyst grant of \$2000 for JARL (Just Another Robotic Limb) to continue developing project.

Big Ideas Winner

Won \$6000 in Big Ideas competition, a competition to provide funding to social ventures, for Opportunity Through Data.

Experience

Software Engineering Intern | Moody's Analytics

Jun 18 – Present

Languages/Frameworks: Java, Spark, Hadoop, SQL, ANTLR

- Creating a new version of a stress-testing product, Scenario Analyzer.
- Restructuring its backend to be reliant on Spark and Hadoop instead of Oracle databases.

Research Assistant | Hybrid Ecologies Lab

Feb 18 – May 18

Languages/Frameworks: Javascript, jQuery, Python, SQL, Flask, d3.js

- Designed full-stack Chrome Extension for experiment to see the effects of visualizations on reading and writing patterns of individuals on one of the largest online writing communities, Archive of Our Own.
- Researched user base of site for extension development.

Academic Intern | CS61A

Jan 18 – May 18

Languages/Frameworks: Python, SQL, Scheme

- Selected as an academic intern for CS61A, the introductory computer science course at UC Berkeley, which has > 1200 students.
- Helped students with projects, homework, etc. during office hours and assists students with course content during lab sections.

Director of Technology | Opportunity Through Data

Oct 17 – Present

Languages/Frameworks: Python, Jupyter

- Technical lead of a team that plans to expand data science education to women's prisons to reduce recidivism rates.
- Won 2nd place in the Workforce Education and Development category in the 2018 Big Ideas competition, receiving \$6000 in funding to implement project.
- In charge of curriculum design, including the creation of a textbook and interactive activities, and other technical considerations.

Vice Chair and Tech Staff | Berkeley Model United Nations

Sep 17 – Present

Languages/Frameworks: Python, ReactJS, Django

- Vice Chair, Research Staff, and Technology Staff for the oldest high school Model United Nations conference in the world.
- Assists in web development for the conference's registration, grading, and feedback system, Huxley, using Django.
- Helps plan for and head committees with over 100 students at a conference with over 2000 attendees annually, condensing material to a high-school level.
- Advises topics synopses for committees on topics ranging from sustainable technology development to military aid.

Projects

JARL | EnableTech

Sep 17 – Present

Languages/Frameworks: Arduino

- Mechanical team member for JARL (Just Another Robotic Limb): a robotic wheelchair attachment for people with limited hand mobility.
- Worked with need-knower to implement design of a linear actuating base for z-axis movement as well as a universal wheelchair mounting system.
- Won a Jacobs Institute Innovation Catalyst grant of \$2000 for potential.