Shayna Kothari

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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
- Analysis of Technological and Social Networks
- Linear Algebra and Differential Equations
- Discrete Math and Probability Theory
- The Foundations of Data Science
- Immigration and Data Science

Skills

Java	**SQL**
Python	Spark
Javascript	Scheme
HTML/CSS	Flask
jQuery	Jupyter
Django	*NumPy*
spaCy	*R*

Advanced, Intermediate, *Beginner*

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 – Aug 18

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

- Created a new 'lite' version of a stress-testing product, Scenario Analyzer.
- Restructured its backend to be reliant on Spark and Hadoop.
- Optimized product to use cluster computing, improving read/write speeds for large amounts of data.

Course Tutor | CS61A

Jan 18 – Present; *Academic Intern Jan 18 – May 18*

Languages/Frameworks: Python, SQL, Scheme

- Teaches small-group sections for CS61A, a course with over 1800 students per semester taught in Python, SQL, and Scheme.
- Supports students with projects, homework, etc. during office hours and assists students with course content during lab sections.

Research Assistant | Hybrid Ecologies Lab

Feb 18 – May 18

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

- Designed & built 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.

Director of Technology | Opportunity Through Data

opportunity-through-data.github.io

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.
- Works on the registration, grading, and feedback system, Huxley, using Django.
- Developing an integrated speech-tracking platform for use during conference.
- 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.

Projects

JARL | EnableTech

Sep 17 – Present

Languages/Frameworks: Arduino

- Team lead for JARL (Just Another Robotic Limb): a robotic wheelchair attachment for people with limited hand mobility.
- Oversees team of 10+ working on tasks spanning software to mechanical systems.
- 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.