Shayna Kothari

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Skills

Programming

Java	R
Python	SQLite
Javascript	Ruby
HTML/CSS	Scheme
Django	Flask
jQuery	NumPy
Arduino	

Computer-Aided Design

AutoCAD	SOLIDWORKS
Autodesk Fusion	Inventor

Education

University of California, Berkeley

Aug 17 – May 21

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

Winner in Big Ideas competition, a competition to provide funding to social ventures, for Opportunity Through Data.

Experience

Research Assistant | Hybrid Ecologies Lab

Feb 18 – Present

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

- Studies human-computer interaction in the context of writing style visualization.
- Currently designing 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.
- Does user research for experiments and designs process from start to finish.

Academic Intern | CS61A

Jan 18 – Present

Languages/Frameworks: Python, SQL, Scheme

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

Technical Lead | Opportunity Through Data, Big Ideas Contest

Oct 17 – Present

Languages/Frameworks: Python

- Technical lead of a team that plans to expand data science education to women's prisons to reduce recidivism rates.
- Chosen as winners in the 2018 Big Ideas competition (top 12 teams out of > 300 initial proposals) and received funding to implement project.
- In charge of curriculum design and other technical considerations, including implementation of the program at Federal Correctional Institution Dublin.

Vice Chair and Tech Staff | Berkeley Model United Nations

Sep 17 – Present

Languages/Frameworks: Python, ReactJS, Django

Technology Staff

- Assists in web development for the conference's registration, grading, and feedback system, Huxley, using Django.
- Works on both frontend and backend of system.

Vice Chair: UN Habitat

- Vice Chair of the UN Human Settlements Program for oldest high school Model United Nations conference in the world.
- Helps plan for and head a committee with over 100 students at a conference with over 2000 attendees annually.
- Writes blog posts about topic content, condensing material to a high-school level, and works on topic synopsis.

Projects

JARL | EnableTech

Sep 17 – Present

Languages/Frameworks: Arduino

- Team member in both software and mechanics for JARL (Just Another Robotic Limb): a robotic wheelchair attachment for people with limited hand mobility.
- Implemented design of a linear actuating base for z-axis movement.
- Currently working on designs for a wheelchair mount for the arm to counteract torque from arm movement.
- Works with need-knower to design arm.
- Project won a Jacobs Institute Innovation Catalyst grant of $2000 for its potential.