KIMBERLY MAHONEY

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EDUCATION

University of California, Berkeley   *Expected Graduation Dec. '16*
- **B.A. in Cognitive Science** || GPA**:** 3.5

Coursework: Statistics, Research & Data Analysis in Psych, Cognitive Neuroscience, Perception, Structure and Interpretation of Computer Programs, Data Structures, Computational Models of Cognition, Discrete Math/Probability, Linguistics, Computing with Data, Intro to Database Systems, Innovation & Entrepreneurship

Organizations: FEM Tech, Black Engineering and Science Student Association, Data Science Education Group

PROJECTS

- **Personal**
  - *genius.com lyric scraper*: A program written in Python that scrapes lyrics from genius.com given an artist's name and target albums using the BeautifulSoup library
  - *Personal Website*: A simple and responsive website for hosting my resume on Github pages
  - *Weather App*: A weather web app made using OpenWeatherMap's API
- **Academic**
  - Stat 133 Election Analysis: Data analysis and machine learning project focused on analyzing and predicting the 2016 election results
  - *CS 186: Database Implementation:* Implementation of a database involving concurrency control, B+ Trees and file management, and query optimization - written in Java
  - *CS 61b Gitlet:* A Git-inspired file reversion system - written in Java
  - *3pi Robot* : Programmed a 3pi bot to complete a custom figure-eight obstacle course. Written in C using Pololu3pi's Sensor Library

EXPERIENCE

Student Web Developer, Berkeley Institute for Data Science   *Sep '16 – Current*
- Created wireframe sketches and high fidelity prototypes
- Created websites for the Data Science connector courses

Team Lead | Diversity & Inclusion, Berkeley Institute for Data Science   *Dec '15 – Aug '16*
- Managed four undergraduate students on the Diversity & Inclusion team
- Collaborated with the Outreach team to asses the needs of underrepresented students in STEM at UC Berkeley through survey's, interviews, and enrollment data
- Created organizational charts to map the Data Science Education ecosystem on campus
- Drafted the Data Science Scholars Program proposal – an educational program that provides academic mentorship for underrepresented students interested in Data Science
- Collaborated with all team leads to develop a holistic hiring and interviewing strategy

Research Assistant, Berkeley Institute for Data Science   *Aug '15 – Dec '15*
- Researcher on both the Inclusion & Diversity Team and the Curriculum team
- Designed a needs assessment survey, qualitative codebook, and structured set of interview questions
- Analyzed qualitative data for the undergraduate Data Science Education Program

Lab Assistant, University of California, Berkeley   *Jan '15 – May '15*
- Assisted students in CS 61a, Structure and Interpretation of Computer Programs, weekly in the fundamentals of computer science utilizing Python, Scheme, and SQL programming languages

SKILLS

- Experience with quantitative and qualitative research methods
  - A/B Testing, survey design, interviews/focus groups
- Language & Frameworks: Python, R, SQL, Java, Javascript, HTML, CSS
- Tools/Libraries/Other: Excel, Git, matplotlib, numpy, ggplot2, Bootstrap, jQuery