MELANIE CEBULA

contact

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education University of California, Berkeley

3.7 GPA B.A. Computer Science, May 2016

experience

Airbnb, Intern (2015)
Payments team

Facebook, Intern (2013, 2014)
Ads & Pages team (2014)
iOS team (2013)

University of California, Berkeley
CS 61B TA (2014-current), Head Reader (2014)
CS 61A Reader, Lab Assistant (2014)

select projects (team size)

movie mashup (2): Used markov chains to mash together the plots of two different movies. Used a naive bayes classifier (from nltk) to determine the main character's names from both plots and only use one of them (for more mashup fun). Best Way to Spend a Saturday Night at HackJam

fb_graph (solo): A speed hack that uses d3.js to visualize my facebook friend graph

instarecipe (2): A speed hack that displays instagram photos of food that include recipes in the description using instagram API. Best Use of APIs/Frameworks at HackJam

PokePon (4): Built a 2-player pokemon rhythm game where the host chooses a song from SoundCloud, and each player must press specific keys to the beat of the song in order to perform different moves successfully. Best Use of Firebase API at Penn Apps

Rate My Cat (3): Built a website where users can submit and view cat pictures that are ranked by views. Built using Flask and mongoDB for the database. Won 'Learned the Most' prize at HackJam

colorize Prokudin-Gorskii (solo, class project): Aligning old Russian photographs taken in different color channels to produce a color photograph. Implemented different filters, image pyramid algorithm, several speed optimizations, automatic contrast and cropping, white balance, and applied the same techniques to NASA photographs. CS 194-26 Class Choice Finalist

leadership

Hackers@Berkeley officer (Workshops Committee); CS 61B Course Staff (Undergraduate TA)

skills and technologies

Python, Javascript, Java, iOS/Objective-C, C++, ruby, git, CSS, HTML

select coursework

Programming Languages and Compilers, Computability and Complexity, Algorithms, Computational Photography, Artificial Intelligence