

# MELANIE CEBULA

education [University of California, Berkeley](#)

3.7 GPA B.A. [Computer Science](#), May 2016

contact

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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, Ruby on Rails, Javascript, Java, iOS/Objective-C, C++, git, CSS, HTML

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