

MELANIE CEBULA

Education [University of California, Berkeley](#)

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

Contact

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Experience

[Airbnb](#), Software Eng. Intern (2015)

Payments team

- Built out Employee Travel Credit Program and Airbnb Credit
- Designed and implemented data models, backend, and frontend using MySQL, Rails, and Javascript
- Processes millions of USD in transfers between accounts

[Facebook](#), Software Eng. Intern (2013, 2014)

Ads & Pages team (2014)

- Pages Draft Posts for iOS: Page admins can create, edit, delete, and publish drafts

iOS team, Facebook University Program (2013)

- Completed Nerd Ranch iOS Programmer certification

[University of California, Berkeley](#)

Programming Languages & Compilers TA (2015-present)

Data Structures TA (2014-2015), Head Reader (2014)

Intro to CS Reader, Lab Assistant (2014)

[Hackers@Berkeley](#)

Officer (Workshops Committee)

Selected Projects

datascript:

- Created a [parser](#) for a simple file format based on indentation in node.js

movie mashups:

- Used a [markov chain](#) to mash two movie plots together
- Used nltk to identify main characters and maximize mashability

fb_graph:

- Tested graphing capabilities of [d3.js](#) by visualizing my facebook friend graph

instarecipe:

- Used the [instagram API](#) to display recipes.

pokepon:

- Created a [multiplayer rhythm game](#) with beats based on your Soundcloud playlist

colorize:

- Combined photos with different color channels into a single color photograph
- Implemented all kinds of [optimizations](#) for speed and accuracy, (i.e. image pyramid algorithm that reduces computation time by several orders of magnitude)

Skills and Technologies

proficient: **Python**, Java, Rails, node.js, Javascript, Git/Github, HTML/CSS

familiar with: iOS/Objective-C, MySQL, AWS, C, C++, MongoDB, Scheme