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

datscript:
- 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, Rails, node.js, Javascript, Java, Git/Github, HTML/CSS
familiar with: iOS/Objective-C, MySQL, AWS, C, C++, MongoDB, Scheme