

# Nick Rose

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## EDUCATION

### University of California, Berkeley - Berkeley, CA

Grad. May 2017

#### Bachelor of Arts Candidate, Computer Science (CS)

- GPA: 3.96, Upsilon Pi Epsilon CS Honors Society, Computer Science Scholar
- Current coursework in Data Structures and Advanced Programming, Linear Algebra.
- Completed coursework in the Structure and Interpretation of Computer Programs, Web Design, Discrete Mathematics.

### Analy High School – Sebastopol, CA

Grad. May 2013

- GPA: 4.3, top 4% of graduating class

## WORK AND LEADERSHIP EXPERIENCE

### The Center for Entrepreneurship and Technology (CET) – Berkeley, CA

06/14 - Present

#### Full Stack Web Developer

- Connected students and entrepreneurs across Berkeley by building feed-style webapp with Django, Ajax, and APIs.
- Accumulated full stack development skills by starting as a frontend intern and moving to backend as I gained new skills.

### EdX Development Research Team - Berkeley, CA

01/14 - Present

#### Student Researcher

- Increased efficiency of Berkeley's CS intro course—CS10—for edX platform by building backend Python parsing tools.
- Adapted MapReduce tools along with higher order functions and list comprehensions for autograding tools within Snap.

### Google at Berkeley Student Group - Berkeley, CA

09/13 – 06/14

#### Education/Tech Chair

- Led and prepared workshops on products such as Drive, App Engine, and Extensions to maximize students' productivity.
- Increased student engagement by showcasing cutting edge Google products like Google Glass using sponsored exhibits.

### Sonoma State University - Rohnert Park, CA

06/12-08/12

#### Lead Electrical Engineering Intern

- Selected out of 80 competitors countywide to participate in exclusive STEM internship based on teacher recommendations.
- Designed and soldered a life-saving Electrocardiogram circuit by working closely with engineering professor, Dr. Jack Ou.
- Presented and demonstrated my research to chair of engineering department, Suzanne Rivoire, 20 professors and 10 interns, by adopting impromptu speech and parliamentary debate skills.

## PERSONAL PROJECTS

### FlyingPepperProductions Site

07/15 - Present

- Increased load time and built showcasing site for Miles Pepper's video production company. Incorporated newly learned performance optimization tools such as image downscaling, video modals, and Javascript dictionaries.

### Lab Parser

01/14 - Present

- Coded and self-taught backend Python script that parses CS10 labs into xml files appropriate for importing into edX course. Reduced importing workflow from ~2 hours to 5 seconds.

### Laziness Finder App - <http://tinyurl.com/knssbwk>

04/14

- Created web application that matches the user with a group of five states in the United States where they should live.
- Analyzed data from the Center for Disease Control and a humorous quiz to determine the laziness level of the user. Optimized website frontend using new skills learned from Web Design class: HTML, CSS3, Javascript, and jQuery.

### Generation Effect App - <http://tinyurl.com/m4zemhy>

01/14

- Enhanced text memorization by constructing a website that uses the cognitive phenomenon of the generation effect.
- Built for the Berkeley Hackjam Hackathon in 12 hours as my first hackathon project. See Github and LinkedIn for more info.

### Water Buckets App - <http://tinyurl.com/lut9afg>

12/13 – 01/14

- Created visualization of the classic water buckets logic puzzle by building a website application based in Javascript.
- Acquired frontend web design skills by illustrating complex problem with simple interactive online game.

### “Uno!” Solver

09/13-10/13

- Demonstrated the efficiency of algorithmic representations of card games by automating a game of “Uno” in Snap.
- Used autonomous rule-based system, strategic algorithms, and concurrency to announce a winner of four computer players.
- Program has the ability to swap out computer players for real ones, using a turn-based interface.

## OTHER

### Computer Skills

- Programming Skills: Java (learning), Python, Android (learning) HTML5/CSS3, Javascript, JQuery, Django, Git, App Engine

### Interests

- Salsa dance, heavy metal/jazz guitar, alto sax soloing, black diamond backwoods skiing, surfing, camping, cooking