

# Nick Rose

707.490.8129 / nsrose@berkeley.edu  
http://nicksrose.com

## EDUCATION

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

Grad. May 2017

Bachelor of Arts, Computer Science (CS)

- GPA: 3.8, Computer Science Scholar, Cofounder Packd
- Current coursework in Efficient Algorithms and Intractable Problems, Network Architecture and Protocols, AI.
- Completed coursework in Data Structures and Advanced Programming, Web Design, Discrete Mathematics.

## WORK AND LEADERSHIP EXPERIENCE

### Packd | Cofounder, Software Engineer

08/14 - Present

- Increased efficiency of students' and residents' shop-going lives by building app that uses RPi and Wifi scanning tech to evaluate how crowded a location is. Created business model and go-to-market strategy for company based on customer research.
- Ensured product longevity by writing extensible code for the API, secure tokens for our hardware, and efficient Django ORM queries.
- Gained valuable product management skills by putting myself in charge of team, managing three ambitious students.

### Microsoft | Program Manager, Cloud and Enterprise Identity Team

05/16 - 08/16

- Improving thousands of startup developers' authorization and identity flows by creating a new Visual Studio template for B2C apps.
- Increasing adoption of Visual Studio by providing a solution to customers who want policy-driven login, sign up, and profile-edit flows.
- Providing a cohesive team experience for my developers by promoting communication, issue tracker usage, and daily scrum meetings.

### UC Berkeley Computer Science | Teaching Assistant, Artificial Intelligence and Data Structures and Algorithms

01/16 - Present

- Improved understanding and fostered interest in Computer Science fundamentals by leading a discussion of 30 - 40 students and a lab section each week. Helped create course material and communicate important new advances in CS theory and practice.
- Encouraged industry-ready practices in students by stressing the importance of readable, testable code built in IDEs.

### ClickTime | Software Engineer

05/15 - 05/16

- Enhanced business productivity and time tracking by structuring backend systems for creating and managing employee timesheets. Worked with C# and .NET Framework to construct complex SQL queries to improve app performance.
- Improved fluidity of time tracking by building Angular chrome extension for ClickTime in self-managed project.

### EdX Development Research Team | Student Researcher

01/14 - 12/14

- Increased efficiency of Berkeley's CS intro course—CS10—for edX platform by building backend Python parsing tools. Streamlined course building process by converting html to xml, made process which used to take ~4 hours now only seconds.

## PERSONAL PROJECTS

### Packd App - <http://packd.org>

08/14 - Present

- Designed specific inputs and outputs for each team of the app - frontend and backend - to abstract tasks effectively.
- Constructed server - hardware - mobile interface using Raspberry Pi, Django, and over-the-air software updates.
- Dedicated RESTful API-centric design, with testing environments, server memcaching, and marketing site.

### FlyingPepperProductions Site - <http://tinyurl.com/mslgas9>

07/14 - 08/14

- 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.

### Course Builder - <http://tinyurl.com/muyyx5b>

01/14 - 12/14

- Coded and self-taught backend Python script that parses CS10 labs into xml files appropriate for importing into edX course. Reduced importing workflow from ~4 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 website using the cognitive phenomenon of the generation effect for hackathon.

### 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

### "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.

## Other

### Programming Languages

- Java, Django, Python, Git, C#, AngularJS, jQuery, C, HTML5/CSS3, Javascript, Unix, Logisim, MIPS Assembly

### Interests

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