

# Alec Mori

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## Education

Aug 2012 - May 2016 **University of Illinois** | B.S. Computer Science Urbana, IL  
• Minor in Mathematics

## Work

Aug 2016 - Present **Yelp** | Data Engineer San Francisco, CA  
• Something Will Go Here  
• Something Will Go Here  
• Something Will Go Here

Aug 2013 - May 2016 **University of Illinois** | Tutor Urbana, IL  
• Tutored a variety of subjects within Mathematics and Computer Science  
• Led dozens of review sessions for Mathematics, each with over 50 attendees

Aug 2013 - May 2016 **University of Illinois** | Engineering Learning Assistant Urbana, IL  
• Designed over a dozen lesson plans for the introductory engineering course  
• Mentored over 30 students (and continue to mentor some)

Jun 2015 - Aug 2015 **University of Illinois** | Course Design Urbana, IL  
• Designed an introductory course for data visualization using D3 and Python  
• Worked with several popular API's including Wikipedia and Spotify  
• Assisted teaching the class during some of the early stages

## Research

Jan 2015 - May 2015 **University of Illinois** | Research Assistant (USB) Urbana, IL  
• Tested security on the University of Illinois campus by dropping pseudo-malicious flash drives  
• Wrote Android application to monitor progress as we dropped flash drives  
• Worked with Google App Engine (Python) alongside Android (Java)  
• Paper "Users Really Do Plug in USB Drives They Find" can be found [here](#)

Jun 2013 - Aug 2013 **University of Illinois** | Research Assistant (Taxi) Urbana, IL  
• Used 4TB of New York City taxi data to simulate the effects of a SmartTaxi system  
• Implemented KD-trees, ArcFlags, and Contraction Hierarchy to improve runtime  
• Improved MIT algorithm to estimate speed on NYC streets over various times of day

## Languages

### Preferred

- Python
- Haskell

### Proficient

- Java
- JavaScript (D3)

### Familiar

- C
- C++
- MATLAB

## Projects

Dec 2014 - Present **Spotify** | Playlist Connection Urbana, IL  
• Building a web application that creates a Spotify playlist based off multiple user's interests  
• Designed an algorithm which artists a user would be interested in given listening history

Jan 2016 - May 2016 **University of Illinois** | Senior Thesis Urbana, IL  
• Visualized the class organizational structure at the University of Illinois (found [here](#))  
• Used D3 for the visualization, Python for data processing  
• Designed webpage to best utilize computation given type of device and location on page