

# 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** | Machine Learning Engineer San Francisco, CA  
• Machine learning engineer on the Ad Creative/Search Experience team at Yelp  
• Maintained reinforcement learning algorithms that handle 2000 QPS  
• Improved MXE of click-through-rate prediction of reviews in advertisements by over 10%  
• Contributed to bringing computer vision to advertisements at Yelp  
• Implemented and experimented with contextual bandit to optimize review selection  
• Currently developing data infrastructure/machine learned models to improve search UI

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 2015 - Jan 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)

## 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

## Technology

### Languages

- Python
- Haskell

### Systems

- AWS
- Cassandra
- Docker
- Paasta

### Libraries

- Scikit-learn
- Tensorflow
- XGBoost
- Spark

## Other Projects

Jan 2017 - Present **alecmori.com** | Author and Maintainer San Francisco, CA  
• Maintain a website for fans of the video game *Rock Band*  
• Use word2vec and text processing to power autocomplete engine for songs  
• Receives over 500 monthly active users

Nov 2016 - May 2017 **Girls Who Code** | Volunteer Teacher San Francisco, CA  
• Co-taught an introductory programming class of over twenty different middle school girls  
• Each student presented either a game or static web page by the end of the course