

Alec Mori

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Education

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

Work

Jun 2018 - Present **Yelp** | Machine Learning Engineer - Search UX San Francisco, CA
• Developing data infrastructure/machine learned models to improve search UI
• Designing experiments to balance many metrics alongside other teams

Aug 2016 - Jun 2018 **Yelp** | Machine Learning Engineer - Ad Creative San Francisco, CA
• 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

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