

# Alec Mori

alecmori@gmail.com · alecmori.com · 815-484-3279 · Github: **alecmori**

## Education

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

## Work

- Jan 2019 - Present **Google** | Software Engineer - Search - Machine Learning New York, NY  
• Engineer on machine learning and data analysis platform  
• Working with Youtube, Maps, Knowledge teams to improve model performance  
• Creating tooling for model understandability, such as SHAP values and intelligent plotting  
• Integrating models into software development workflows by creating Python model representation
- Jun 2018 - Oct 2018 **Yelp** | Machine Learning Engineer - Search UX San Francisco, CA  
• Developed machine learning infrastructure and models to improve search UI  
• Designed experiments to understand triggering threshold effects on CTR and retention
- 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%  
• Oversaw formation of computer vision infrastructure and algorithms to advertisements at Yelp  
• Implemented and tested contextual bandit for online review selection

## 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 backed by Google App Engine to monitor progress during experiment  
• 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 run simulation in < 1 day  
• Implemented algorithm to estimate speed on NYC streets per hour; improved edge case predictions

## Technology

### Languages

- Python

### Systems

- AWS
- Docker

### Libraries

- Scikit-learn
- Tensorflow
- XGBoost
- Keras

## Other Work

- May 2020 - Present **Codepath** | Instructor Remote  
• Co-teach an algorithms class of over 1000 college students  
• Help create content for burgeoning introductory class
- Jan 2017 - Present **alecmori.com** | Author and Maintainer Remote  
• Maintain a website for fans of the video game *Rock Band*  
• Use historical click data to power autocomplete engine for search  
• Site receives over 500 monthly active users