

# Alec Mori

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

## Education

Aug 2012 - May 2016

**University of Illinois** | B.S. Computer Science  
• Minor in Mathematics

Urbana, IL

## 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 development workflows with Python model representation

Jun 2018 - Oct 2018

**Yelp** | Machine Learning Engineer - Search UX

San Francisco, CA

- Developed data infrastructure/machine learned models to improve search UI
- Designed 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

## 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

### Systems

- AWS
- Docker

### Libraries

- Scikit-learn
- Tensorflow
- XGBoost
- Keras

## Other Projects

May 2020 - Present

**Codepath** | Instructor

Remote

- Co-taught an algorithms class of over 200 college students

Jan 2017 - Present

**alecmori.com** | Author and Maintainer

San Francisco, CA

- Maintain a website for fans of the video game *Rock Band*
- Use historical click data to power autocomplete engine for songs
- Site receives over 500 monthly active users