

Alec Mori

alecmori@gmail.com · alecmori.com · 815-484-3279 · Github: [alecmori](#)

Education

- Jan 2021 - Sep 2022 **University of Illinois** | M.S. Computer Science Urbana, IL
- Focus in Data Science
- 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 interpretable 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
 - Focused on simplifying and generalizing optimization workflows.
- Aug 2016 - Jun 2018 **Yelp** | Machine Learning Engineer 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
 - Developed machine learning infrastructure and models to improve search UI

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 / Curriculum Development Remote
- Co-teach an algorithms class for 100's of college students
 - Design curriculum and content for inchoate 24-session introductory data structures course
- 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