Alec Mori

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Work

Nov 2020 - Present   **Google |** L4 Software Engineer - Search - Machine Learning   New York, NY
- Engineer on interpretable machine learning and data analysis platform for 1000's of users
- Working with Youtube, Maps, Knowledge, Waymo teams to improve model performance
- Designed mechanism to elegantly embed metadata into models for development workflows
- Rewrote core training APIs for active learning workflows

L3
- Created for model understandablity, such as SHAP values and intelligent plotting
- Integrated models into software development workflows by creating Python model representation
- Oversaw redesign of code->documentation pipeline, leading to 100's more generated documents

Aug 2016 - Jun 2018   **Yelp |** Machine Learning Engineer   San Francisco, CA
- Machine learning engineer on ads serving teams, handling 2000 QPS
- Maintained and improved multi-armed bandit systems
- 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
- Developed machine learning infrastructure and models to improve search UI

Education

Jan 2021 - May 2023   **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

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**

Technology

Languages	**Platforms**	**Libraries**
• Python	• AWS	• Scikit-learn
• R	• Docker	• Tensorflow
		• XGBoost

Other Work

May 2020 - Present   **Codepath |** Instructor   Remote
- Co-teach an algorithms class for 100's of college students
- Designed 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
- Automatically scrape Youtube videos to update data on the website