Jeremy Hu

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Education/Coursework

University of Maryland   **B.S. CS+Econ / UMD Master's Student starting Fall 2019**   2015-2019
- **Practical ML:** Machine Learning projects with Kaggle datasets + Keras/Tensorflow
- **Selected Topics in ML:** Generalization Theory, Ensemble Learning, Reinforcement Learning

Skills

Languages: **Fluency:** Python | Java | JavaScript **Proficiency:** C | Matlab

Technologies: Git | Tensorflow

Professional Experience

Software Engineering Intern   **BeamIO Inc.**   May 2019-Current
- Added new object detection functionality for images and videos using existing yolov3 open source for use with proprietary algorithm deployment software
- Added functionality from **OpenCV** for usage with algorithm deployment software

Software Engineering Intern   **Adobe Systems Inc.**   May-August 2018
- Implemented and designed front end framework of new customer-facing data insights platform using **React**
- Responsible for integration of UI with internal Flask APIs

Research Assistant   **UMD CS Department (Machine Learning Group)**   January-May 2018
- Rewrote Matlab tensor decomposition functions into **Python** scripts to streamline testing
- Worked on testing novel Tensor Decomposition methods for Dictionary Learning problem

Software Engineering Intern   **BeamIO**   May- August 2017
- Using **Java** and open-source **JavaScript** libraries, developed front-end data visualization tools.
- Created a vector visualization tool and a drone video overlay functionality in company GIS map platform
- Used **Deep-Learning4Java** to configure and transfer train a **ResNet50** model on satellite imagery. Recognition accuracy of 88% for 22 classes of images on user-facing map platform.

Research Assistant   **Maryland Cybersecurity Center**   January-May 2017
- Wrote **Python** web-scrapers for automation of demographics data collection/analysis
- Collaborated with graduate students and professor in writing paper (featured at 2018 IEEE Security Symposium)

Selected Projects

Generalization Error Experiments   **Research Project**   March 2017
- Designed and implemented experiments examining relationship between generalization error and latent eigenvalues in NNs based off recent generalization bound literature

Chest X-Ray Detection   **Kaggle**   Jan. - May 2018
- Used Keras to implement different transfer learning models for classifying lung x-ray photos for disease diagnosis.