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 Machine Learning:** Machine Learning projects with Kaggle datasets + Keras/Tensorflow

Skills

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

Technologies: Git | DeepLearning4Java | MySQL | Matlab

Professional Experience

Software Engineering Intern **Adobe Systems Inc.** May-August 2018

- Implemented and designed front end framework of new customer-facing data insights platform using **React**
- Integration of design with internal React components
- 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** Summer 2017

- Using **Java** and open-source **JavaScript** libraries, developed front-end data visualization tools.
- Created a vector visualization tool and a drone video overlay in the 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.
- Worked in an **Agile Environment** with software developers and scientists.

Research Assistant **Maryland Cybersecurity Center** January-May 2017

- Wrote **Python** web-scrapers for automation 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

- Examining empirical relationships between testing error and eigenvalues of weight parameters based off recent generalization bounds and regularization techniques

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.

Volunteering and Activites

UMD Tzu Ching **Student Volunteer** Fall 2015 - Current

- Volunteer at DC parks and shelters to provide food and clothing to homeless citizens.

UMD Club Basketball **Member** 2017-2018

- Member of the Club Basketball Team.