Jeremy Hu

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Education/Coursework

University of Maryland   **B.Sc : Computer Science, B.Sc Economics (Current Master's Applicant)**   2015-2019

- **Selected Topics in Machine Learning:** Complexity/Generalization bounds, Tensor Methods, Group Research Project
- **Practical Machine Learning:** Machine Learning projects with Kaggle datasets + Keras/Tensorflow
- **Econometrics I+II:** Statistical Methodology in Economic Models

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 UI of new customer-facing data insights product using **React**
- Responsible for integration of UI with internal APIs and Machine Learning models

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 Development 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 **Deep Learning** 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 gathering and analysis of demographics data
- Collaborated with graduate students and professor in writing paper (featured at 2018 IEEE Security Symposium)

Selected Projects

Chest X-Ray Detection   **Kaggle**   Ongoing

- Using Keras to implement different models for classifying lung x-ray photos for disease diagnosis.

GIS Web Application   **Class Project - UMD**   March 2017

- Built simple **MySQL** schema for modelling of Animal Conservation locations.
- Built a REST API layer using PHP

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.