**Hao Fu**

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# EDUCATION BACKGROUND

**University of Virginia, Charlottesville, VA** Aug 2017 – Present

*Master of Science in Computer Science GPA : 3.79 / 4.0*

* Coursework: Text Mining, Natural Language Processing, Information Retrieval, Machine Learning

**Shanghai Jiao Tong University, Shanghai** Sep 2013 - Jun 2017

*Bachelor of Electronic Engineering GPA : 3.65 / 4.0*

* Coursework: C++ Programming, Data Structure, Operating System

# INTERNSHIP EXPERIENCE

**Yitu Tech. (Top 5 AI Company in China after C-round funding), Shanghai** June 2018 - Aug 2018

*Algorithm Engineer Intern*

* Worked on beard classification model used in surveillance video structuralization
* Designed pipeline for beard classification, wrote annotation documents and implemented data cleaning and image processing tool in **C++** and **Python** based on **opencv** library
* Applied data augmentation and different data source combinations to improve model performance. Final model achieved 96.5% for recall@fa=1% for heavy beard and 84.8% for recall@fa=1% for shallow beard

**Youku Tudou Inc. (Top 3 video site in China), Shanghai** Feb 2017 - May 2017

*Backend Development Intern*

* Tested and optimized robustness of backend API of Youku Kids app based on Django framework
* Wrote code to upgrade backend API for new video data source

# SELECTED PROJECTS

**Second-Hand Product Price Suggestion for Online Selling** Feb 2018 - May 2018

* Designed second-hand product price suggestion system for online selling based on name, item condition, category, brand, shipping information and item description using **ridge regression**
* Implemented designed model in **Java**, trained and tested on a dataset of 100000 items and got 0.444 compared with baseline model 0.522 in RMSLE (Root Mean Square Logarithmic Error) metric

**Topic-based Word-level Interpretability Improvement on Citation Recommendation** Aug 2018 - Dec 2018

* Designed topic-based approach to find topic relationship between query and recommended document as well as dominant words in recommended document that contributes most based on a multi-label topic classification neural network
* Implemented designed approach in **Python** based on **Pytorch** and achieved 50.55% for topic classification model on test set in Jaccard Index

# AWARDS

* 2017-2018 Department of Computer Science Academic Excellence Fellowship

# TECHNICAL SKILLS

* Language: Python, Java, C++, Javascript, PHP, SQL
* Framework: Pytorch, Tensorflow, Django