**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: Computational Visual Recognition, Natural Language Processing, 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, Digital Image Processing

# INTERNSHIP EXPERIENCE

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

*Computer Vision 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 combination to improve model performance. Final model with over 200,000 training images 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

**Movie Poster Genre Classification** Aug 2017 - Dec 2017

* Designed multi-label deep learning model based on style feature and **object detection** feature to classify movie genres by their posters
* Implemented designed model in **Pytorch**, trained and tested on a dataset of 40,000 posters and got 14% accuracy improvement compared with baseline model

**Hand Gesture Recognition System Based on Machine Learning** Feb 2017 - Jun 2017

*Undergraduate Project (Thesis)*

* Designed hand gesture recognition system based on **HoG** feature and **SVM** algorithm
* Implemented designed system using **opencv** and **javacv** on Java platform

# AWARDS

* 2017-2018 Department of Computer Science Academic Excellence Fellowship

# TECHNICAL SKILLS

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