Yuwei Qiu

+1 (412) 403-9124 • yuweiqiu@andrew.cmu.edu • victoriaqiu.site

Education

Carnegie Mellon University, School of Computer Science **Pittsburgh, PA**
Master of Computational Data Science (MCDS), CGPA - 4.0/4.0 *Aug 2018 - Dec 2019(Expected)*
Relevant Coursework: Introduction to Computer System.

University of Pennsylvania, Computer and Information Science **Philadelphia, PA**
Visiting Student *Jun 2017 - Sep 2017*
Relevant Coursework: Vision Intelligence and Machine Learning.

Tsinghua University, Department of Electronic Engineering **Beijing, China**
Bachelor of Engineering, CGPA - 3.8/4.0 *Aug 2014 - Jul 2018*
Relevant Coursework: Data Structure & Algorithms, Machine Learning, Operating System, Computer Architecture

Experience

Software Engineer Intern **Huawei Technologies**
End-to-End Printed Chinese Text Recognition *Nov 2017 - Jan 2018*
- Used CAFFE to construct an offline Chinese character recognition system utilizing multi-pathway CNNs and statistic CRF models, eventually boosting accuracy to 96.8% on the 20GB CMCC Chinese Database with over 20 million training/validation samples.
- Result in the work being used in Huawei Nova series as artificial intelligence tools.

Research Intern **Tsinghua University**
Hardness Prediction for Object Detection Inspired by Human Vision *Dec 2016 - Jun 2017*
- Built up an interactive eye tracking experiment system with MATLAB, C++ and C#, and proposed an unsupervised learning approach with CAFFE to generate eye tracking features from eye tracking data of 1300 candidates recorded by *Tobii Eye Tracker*.
- Contributed to a first-authored paper, accepted as oral presentation in *ICIG 2017*.

Projects

Dynamic Allocator Package For C **Carnegie Mellon University**
Course Project of CMU 15213 *Jun 2018 - Jul 2018*
- Built a dynamic allocation system with segregated free list and best fit searching algorithm, which made efficient usage of space without incurring to much time overheads.

Multilabel Image Classification **Tsinghua University**
Graduate Project *Mar 2018 - Jun 2018*
- Used PYTHON with MXNET, concatenated advanced neural networks and built up an online API for multi-label image classification, increasing precision by 2.2% and 1.3% compared to the-state-of-the-art method on 1.5GB PASCAL VOC 2012 and 20GB MSCOCO 2014 respectively.

Skeleton Body Pose Prediction Based On GoPro Videos **University of Pennsylvania**
Independent Project *Jul 2017 - Sep 2017*
- Used PYTHON with PYTORCH to merge traditional Multi-View Stereo algorithms with advanced LSTM to 3D-reconstruct context from a 12GB self-collected data set of highly jittery, blurry and narrow ego-centric *GoPro* videos.

Skills

Programming: PYTHON, C, C++, MATLAB, HTML, LINUX, C#

Software Packages: MXNET, CAFFE, PYTORCH, TENSORFLOW, LATEX