Yuwei Qiu

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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: C/C++, Python, MATLAB, HTML, Linux, C#

Software Packages: MXNet, Caffe, PyTorch, TensorFlow, LaTeX