

YU ZENG

142 Ayrshire Farm Lane ◇ Stanford, CA 94305
(+1) 650 441 6062 ◇ zengyu@stanford.edu

OBJECTIVE

To obtain a hands-on position developing and optimizing image processing systems

EDUCATION

Stanford University , Stanford, CA	expected 2020
Master of Science	
Department of Electrical Engineering	
Shenzhen University , Shenzhen, China	9/14 - 6/18
Bachelor of Engineering	
School of Biomedical Engineering	

EXPERIENCE

Computer Vision Algorithm Engineer Intern	12/17 - 5/18
<i>Tencent, Shanghai, China</i>	
<ul style="list-style-type: none">· Submitted a patent about fusing different descriptions of vehicle key points for data augmentation· Successfully aligned the pruned detection model (RefineDet) from Caffe to TensorFlow in terms of layer· Employed human pose relating techniques to vehicles and implemented algorithms on main frameworks· Learned the pipeline from acquiring data to training models and iteratively optimization in industry	

TECHNICAL STRENGTHS

Computer Languages	Python, C/C++, MATLAB
Software & Tools	PyTorch, TensorFlow, Caffe, Jupyter, HTML, Jekyll

RELEVANT COURSEWORK

Image Processing	Computer Vision	Linear Dynamical Systems
Machine Learning	Principles of Medical Imaging	Computer Graphics (ongoing)

COURSE PROJECTS

Food Recommendation System	9/18 - 12/18
<ul style="list-style-type: none">· Worked on a three-person team to develop algorithms on recommending Chinese dishes intelligently· Originally crawled recipes from a public website by efficient multithreading process on cloud servers· Designed and programmed several ideas experimentally via positive and effective communication	

Standard Panel Localization and Classification	10/17 - 12/17
<ul style="list-style-type: none">· Accomplished improved SSD & RetinaNet to recognize standard panel in prenatal ultrasound· Trained and classified into 6 classes and each has a positive and negative category· Improved the data loader to deploy ultrasound frames up to 100fps in Titan X	

Contour Detection in Corneal Video	6/17 - 9/17
<ul style="list-style-type: none">· Implemented an automatic algorithm which provides a stable functional measurement of corneal contour· Proposed a novel image augmentation approach by on-the-fly sinusoidal transformation· Strengthened the online training through adding the previous prediction into the current input pipeline	