

# Yifu Wang

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## EDUCATION

### CARNEGIE MELLON UNIV

MS IN COMPUTER SCIENCE

June 2016 | Pittsburgh, PA

### DALIAN UNIV OF TECH

BS IN COMPUTER SCIENCE

June 2014 | Dalian, China

## LINKS

Github:// <https://github.com/wangyifu>

LinkedIn:// [yifuwang](#)

## COURSEWORK

### GRADUATE

Search Engine

Cloud Computing

Machine Learning

Adv. Data Structure and Algorithms

Convolutional Neural Networks for

Visual Recognition

(TA) Data Structures for Application  
Programmers

(TA) JAVA for Application Programmers

### UNDERGRADUATE

Operating System

Compiler Techniques

Database Systems

Computer Network

Computer Architecture

Data Structure and Algorithms

## SKILLS

### PROGRAMMING

Python • Java • C++ • SQL • bash •

Javascript

### LIBRARIES & TOOLS

Pytorch • OpenCV • Xgboost • gtest •

CMake

### EVERYDAY USING

ElasticSearch • Docker • AWS • Git •

Jupyter Notebook

## EXPERIENCE

### ADOBE SYSTEMS | MEMBER OF TECHNICAL STAFF

July 2016 – Now | San Jose, CA

#### CONTENT ANALYZER SERVICE(CAS)

microservice, Docker, Flask, protobuf, json-schema, Elasticsearch

- Main developer of CAS, a deep learning as a service framework.
- Let researcher deploy model as a RESTful web service in a day. Implemented features like unit test, validation, monitoring, logging, auto-scaling.
- Built docker base images in C++ / Python / Java with popular deep learning frameworks like Caffe, Tensorflow, Pytorch
- Supported CPU, GPU or Elasticsearch modes
- Launched into the production environment with 3k RPM(Request per Minute) in every region. Currently has 11 analyzers running.

#### SALABILITY ANALYZER

Machine Learning, ElasticSearch, gradient boosting tree, AWS

- Feature includes: image demand, image aesthetic value, visual similarity feature, tagging similarity feature
- Got NDCG(Normalized discounted cumulative gain)@10 = 0.88
- Integrated to Adobe Contributor Pipeline

#### CAR BRAND SEARCH

Pytorch, transfer learning

- Trained a transfer learning model for car brand search
- Fetched 50 thousand car image of 10 categories from AdobeStock
- Extracted feature vector from pre-trained ResNet and VGGNet model. Built a two-layer Fully Connected Network with dropout. Achieves 89% accuracy

### QUIXEY, INC | SOFTWARE ENGINEER INTERN

May 2015 – August 2015 | Mountain View, CA

#### CHINESE QUERY TOKENIZER

Java, MongoDB, AWS, Hadoop

- Implemented Chinese query tokenizer based on the dictionary and statistical language model
- Developed RESTful web service using Jetty
- 40% faster and 1.6% DCG score gain compared with the previous tokenizer
- Integrated to Quixey app search and auto-suggestion

### VMWARE, INC | FULL STACK DEVELOPER INTERN

August 2013 – February 2014 | Beijing, China

#### QE DASHBOARD

PHP, MySQL, Javascript

- Developed QE dashboard based on LAMP stack for visualizing QE progress, updating QE result, and generating result chart in excel and PDF format