

# JUNMING ZHANG

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Graduates

## EDUCATION

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### University of Southampton

Sep 2017 - Jan 2019

Master - Msc Data Science

Southampton

- Master degree: Distinction
- Related courses: Cloud Application, Foundations of Data Science, Data Visualisation, Advanced Databases, Computational Finance, Machine Learning, Advanced Machine Learning

### University of Liverpool

Sep 2013 - Jun 2017

Bachelor - BEng, Electrical and Electronic Engineering

Liverpool

- Related courses: Foundations of Computer programming, C and C++ Programming, Software engineering, Image Processing, Neural Networks, Embedded computer system

## UNIVERSITY PROJECT EXPERIENCES

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### (University of Southampton)

#### Object detection system based on Faster R-CNN

Apr 2018 - Sep 2018

This project is designed for postgraduate graduation. It using Faster R-CNN based on ResNet-50 to locate and recognize 20 categories in VOC2012 dataset. The framework was re-built by Keras. In addition, the difficulty of imbalanced class training and overlapped objects detection were fine-tuned.

#### Kaggle-Job Salary Prediction

Mar 2018 - Apr 2018

This project is to predict the job salary through job advertisements and achieving the top 20% of this competition. It using open-refine to cluster and fill the missing information, word2vec to obtain the semantic analysis of job descriptions. Finally, the salary could be predicted by the neural network.

#### Kaggle-Dog Breed Identification

Feb 2018 - Mar 2018

This project is to classify the breed of different dogs and achieving the top 25% of this competition. It using MXnet to implement networks(VGG-16, ResNet-152, DenseNet-161) for feature extracting and the dog breed could be classified by the neural network on these concatenate features.

### (University of Liverpool)

#### Plasimo display assistant

Feb/2017 - May/2017

This project is designed for undergraduate graduation. this software is used to analyse and visualize the simulated data of plasma. Mockplus was used to design the interface, MFC was used to build the prototype and C++ was used to process data and develop the function of each dialog. Finally, OpenCV was used to show the plasma changing graph and auxiliary curve.

## INTERN EXPERIENCE

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### Malong Technologies

Nov 2018 - May 2019

Deep learning algorithm intern

ShenZhen

- Learning computer vision relevance deep learning methods:
  - Object detection: (One Stage: SSD, YOLO V1, V2, V3, RetinaNet; Two Stage: FPN, RFCN, LightHead)
  - Image segmentation: (FCN, U-Net, DeepLab V1, V2, V3, V3+)
- Downsampled 3D MRI data reconstruction by 3D U-Net and Generative adversarial networks.
- Assist in optimizing the object detection framework:
  1. Mask R-CNN based on Retina net
  2. Panoptic Feature Pyramid Networks

### GBICC-Global Business Intelligence Consulting Co.,Ltd

Jun 2016 - Jul 2016

System developer

BeiJing

Understand the process of program development and financial loan approval system, responsible for the developing and testing of client application function.

## SKILL

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- SKILL: Python, C, C++, HTML, JavaScript, Matlab, R, Tableau
- LANGUAGE: Chinese(native language), English
- PERSONAL HOMEPAGE: <http://kamisama.life/>
- GITHUB PAGE: <https://github.com/Trouble404>