

HAOHAN BO

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Education

Master of Science, Computer Science

Montreal, Quebec, Canada

McGill University

09/2017 – Present

- GPA: 4.0/4.0

Bachelor of Engineering, Software Engineering

Wuhan, Hubei, China

Wuhan University

09/2013 – 06/2017

- GPA: 3.76/4.0 (Ranking: 10/285)

Experience

Computer Vision Intern

Shenzhen, Guangdong, China

SenseTime Group Limited

10/2016–04/2017

Supervised by Dr. Zhanghui Kuang

Intelligent Review of Images using Deep Convolutional Neural Network

- Implemented Online Labeling System using Python, PyQt4, Requests.
 - Improved and Trained Convolutional Pose Machines to generate ROIs and heatmaps of human in images
 - Designed and implemented the Attention and ROI based Convolutional Neural Network for classification.
 - Trained the Neural Network using Caffe based on cost-sensitive strategy with millions of data.
 - Implemented the Software Development Kit using C++.
- https://master.sensetime.com/web/demo/#/filter/filter_np

Research Assistant

Waterloo, Ontario, Canada

University of Waterloo

07/2016–09/2016

Supervised by Prof. Shi Cao

- Implemented Augmented Reality application on Google Tango Tablet using Unity 3D in C#.

Research Assistant

Wuhan, Hubei, China

Laboratory of Bioinformatics, Wuhan University

10/2015–07/2016

Supervised by Prof. Feng Liu

Recognition of Relationships of Genes Using Deep Learning

- Developed web spiders using selenium in Python.
- Designed and trained Convolutional Neural Network through NLTK, gensim(Word2Vec) and TensorFlow.
- Implemented the website to display result of the algorithm using HTML5, CSS3, JQuery and Flask.

Research Assistant

Wuhan, Hubei, China

Big Data & Cloud Computing Lab, Wuhan University

06/2015–10/2015

Supervised by Prof. Weiping Zhu

Intelligent Web Crawler System

- Designed the architecture of web crawler based on Scrapy in Python.
- Implemented a dozen website crawlers through Requests and BeautifulSoup.
- Designed the database and stored data in MySQL.
- Developed the main control system of crawlers.
- Implemented data cleaning tools through SVM, Naive Bayes and Convolutional Neural Network based on NLTK, Scikit-learn, and Tensorflow.

Group Leader of Web Front-End

Ziqiang Portals, Wuhan University

Wuhan, Hubei, China

05/2015-09/2013

Website Projects

- Implemented the front-end of websites, such as the like landing page ("mobile.ziqiang.net.cn"), introduction page, and vote page ("topten.ziqiang.net.cn"), among others, using HTML5, CSS3, and jQuery.
- Managed all the projects of the front-end developer group.
- Trained new students with front-end technologies.

CAPTCHA Recognition Chrome Extension of Educational Administration Management System

- Obtained CAPTCHA from the website using HTML5, Ajax and Javascript.
- Using Django on the back end to respond to requests.
- Designed the Convolutional Neural Network based on VGG with improvements using batch normalization.
- Implemented the functions related to the calculation of GPA and average of selected courses.

Skills

Programming Languages:

Python, Java, C++, JavaScript, SQL, C#, MATLAB

Frameworks:

Caffe, Tensorflow, OpenCV, Unity 3D, Scrappy, jQuery

Other:

HTML5, CSS3, Git, Linux, MacOSX

Awards & Scholarships

Globalink Fellowship MITACS

2017

Globalink Research Internship Award MITACS

2016

Second Class Scholarship (Top 10%) Wuhan University

2015

First Class Scholarship (Top 5%) Wuhan University

2014

Merit Student Wuhan University

2014, 2015

First Prize, Festival of Software Culture in Central China

2014

Extra Curricular Activities

Hackday, Programming Marathon in Central China

05/2014

- Implemented (within 24 hours) an extension of Chrome, which is in Javascript, that aims to prevent people from substantially indulging in online shopping.

Personal Projects

Learning Flappy Bird Game Using DQN (Tensorflow)

Tencent Captcha Recognition Using MobileNet (Keras)