

Education

08/2021 ~ Now Georgetown University

Graduate School of Arts and Sciences

- **Major** in Computer Science
- Pursuing a **Master of Science** degree
- Anticipated Graduation Date: **05/2023**

09/2015 ~ 06/2019 Wuhan University of Technology (WUT)

School of Computer Science and Technology

- **Major** in Computer Science and Technology with **GPA 3.74** out of 4.0
- **Bachelor of Engineering** awarded in June 2019
- 3rd-level **Scholarship** in 11/2018, 2nd-level **Scholarship** in 11/2017

Thesis

02/2019 ~ 05/2019 Graduation Thesis

Subject: Improvement of Object Detection Algorithm YOLOv3

- Conducted the study of feature extraction backbone network and feature interaction network of YOLOv3, and the implementation based on PyTorch
- Proposed improvement ideas concerning the model's YOLO layer and the dataset objects
- Evaluated accuracy of the improved algorithm via the calculation standard of MS COCO mAP-30
- Reached an improved algorithm with 1.65 times mAP and completed a thesis selected as one of the five university-level excellent graduation thesis

Experience

10/2020 ~ 05/2021 Work at CMB YunChuang Technology(cmbyc.com)

Position: Data Development Engineer

- Developed and maintained database (MySQL mainly)
- Exporting report forms from databases
- Developed back-end program of a web project called Cloud Map using Django (at Demo phrase)

03/2018 ~ 08/2018 2018 China University Student Design Competition

Subject: Internet news classification and recommendation system

- Constructed a character-level CNN news classification model
- Crawled five billion new data and vectorized the text data
- Trained the model and achieving a classification accuracy of 90%
- Designed and developed database, web back-end, and front-end interaction via comprehensive implementation of spring boot, redis and mongoDB
- Fulfilled the system based on big data platform with group and became one of the five National 1st Prize winning groups in the Software Service Outsourcing

03/2018 ~ 02/2019 National Undergraduate Innovation and Entrepreneurship Training Program

Subject: Book recommendation system based on book review content

- Pre-processed data regarding text segmentation, de-stopping words, etc.
- Trained tag library word embedding model with word2vec (Chinese Wikipedia corpus)
- Extracted book review keywords using tf-idf and contributed to the design of tag sets and the algorithm calculating correlation between tag sets
- Developed the system "Shu Yun", applied for an invention patent, and approved as a National level project
- Submitted to the 1st "Big Data Innovation" competition and won the 2nd Class Prize
- Applied for a National Invention Patent (Application No.# 201910109797.1)

03/2017 ~ 02/2018 National Undergraduate Innovation and Entrepreneurship Training Program

Subject: A research on a consumer review utility model

- Assumed the Group Leader and coordinated the group's work throughout the project
- Determined four review evaluation dimensions of timeliness, length, sentiment analysis, and product attributes
- Calculated emotional intensity based on sentiment vocabulary
- Obtained product attributes via training word embedding model with word2vec and extracting top 10 keywords with tf-idf
- Quantified features according to number of feature words and used as input into fuzzy hierarchical comprehensive evaluation model
- Trained model with supervised learning mode and approved as a University-level project

Miscellaneous

- **Skills:** Python, Java, C++, Shell script, SQL
- **Open source projects:** KDE event-calendar translation; Bug fix for ShareJS on static page; Bug fix for CSDN blog to markdown; Bug fix for Hexo blog image insertion
- **WUT Open Source Technology Association** since 09/2016: Association president from 05/2017 to 05/2018
- **Video tutorials:** Manjaro Linux configuration et al. (32,000 Playbacks as of 11/30/2019)
- WUT School of Computer Science and Technology **Debate Team:** Member