# ZIHAO ZHANG

Wanzai County, Yichun City, Jiangxi Province, 336100, P.R.China

Email: zh.zhang@connect.um.edu.mo Homepage: zihol.studio

## EDUCATION

**University of Macau, Macau**, China                                    *Sep 2020 – Jun 2023 (Excepted)*
Master of **Computer Science,** Department of Computer and Information Science
Advisor: Prof. Chi Man PUN
GPA: 3.6/4.0

**East China University of Technology(ECUT)**, Nanchang, China                *Sep 2016 – Jun 2020*
Bachelor of **Computer Science and Technology,** School of Information Engineer
Overall GPA: 3.36/4.00, Ranking: Top10%
Advisor: Dr. Tonghan Wang

## PUBLICATIONS

**Zihao Zhang**, Tonghan Wang, East China University of Technology, **Face Recognition SystemV1.0**, 2020SR0952738, *Software Copyright Registration*.

## HONORS

National Encouragement Scholarship(3%, by Jiangxi Education Department)                *Sep 2019*
Scholarship for Outstanding Undergraduate Students(10%, by ECUT)       *Sep 2017& Sep 2018 & Sep 2019*
Certificate of Excellence in the 2019 VCC Summer School(5%, by Shenzhen University)        *Sep 2019*
Excellent Undergraduate Graduation Thesis(10%, by ECUT)                        *Jun 2020*
1st Prize Award in the "FLTRP Cup" English Writing/Reading Contest                    *Oct 2017*

## PROJECT EXPERIENCE

**Automatic License Plate Recognition**                                        *Oct 2020 – Dec 2020*
*Postgraduate Course Project*
· We conclude the related works about LPR under deep learning and put forward our methods. We try to improve the detection and recognition accuracy by fusing two popular methods after our paper reading: U-net and CRNN.
· Training U-net was used to detect the license plate and the recognition also OCR was finished by the CRNN. We also evaluate our trained model on public dataset CCPD, which shows the relative result, especially on the detection module, our model performs better than the CCPD paper in some specific categories.

**Research on Deep Learning Frameworks with Application to Image Recognition**    *Feb 2020 – May 2020*
*Undergraduate Graduation Thesis*                                *Advisor: Dr. Tonghan Wang, ECUT*
· Based on the theoretical and practical research about deep learning frameworks including TensorFlow, PyTorch, Caffe, etc, I finished a face recognition system with Keras and TensorFlow as the backend.
· Utilize the traditional CNN architecture with a pooling layer after two convolution layers four times and then the FNN, I first crawled some celebrities' face images from the Internet and collected mine by the camera, then fed them into the designed deep neural network before some pre-processing to get the final result.
· Now this project has been registered to Innovation and Entrepreneurship Project receiving limited funding meanwhile. We are trying to test the result on different frameworks and develop a robust system.

**Library/Student Information Management System**                                *May 2018/ Jun 2019*
*Undergraduate Course Project in Sophomore and Junior*
· About the Library MIS, we used the Java Web open-source framework Spring+SpringMVC+MyBaits to develop, achieving a stable CRUD operation with a friendly interface. Also, Maven was imported to manage the code and jar

packages to enhance portability.

· Student information MIS, I use Java and SQL to develop an offline Java project, except the basic operations to the student information, I also allocate different features for the specific three roles(student, admin, and the teacher). The index is added also to faster the SQL querying.

## OTHER EXPERIENCE

- Work as a computer room administrator in Computer Experiment Center during my undergraduate period(Nov 2017 – Jan 2019), mainly responsible for testing and installing systems, assisting teachers in the computer room, and daily assigned duty in a computer room.
- Used to be the director of the News Department in Youth Volunteer Association in ECUT(Sep 2017- Jun 2018), and has good teamwork and communication.

## TECHNICAL SKILLS

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|---|---|
| **Programming** | Python, Java(Finished some j2ee projects), Linux Commands, Html, Markdown<br>C/C++(Solving the algorithms problems with limited knowledge about core)<br>Qualification of Computer Software Professional in Medium Level of Software Designer.<br>Frameworks Used Including Pytorch and Tensorflow. |
| **Language** | Native in Mandarin Chinese, Intermediate-level in English, and New Interest in Cantonese.<br>Passed CET-6, Preparing for IELTS. |
| **Others** | Frequent user of Adobe PR, PS to Edit Video, Familiar with Autodesk 3dsMax to Model. |