

# ZEQING WANG

✉ wangzeqing1005@163.com · ☎ (+86) 150-3800-7293 · 📞 q920626166

## 🎓 EDUCATION

<b>Jilin University</b> , Changchun, Jilin	2019 – Present
Pilot Program in Engineering (Software Engineering)	GPA: 3.77/4.0
College of Software	Rank: 12/378 (3%)
	CET 6: 497

## 👨‍🔬 RESEARCH PROJECT

<b>National College Students' innovation training program</b>	2021.05 – 2022.05
<i>Program Leader</i>	

Provide personalized college entrance filling service for high school students.

- Design a recommendation algorithm for college entrance filling service.
  - Compared with existing on-line services of Baidu and Kuake, our algorithm increases the acceptance rates by 14.8% and 24.1%, and improves the average ranking of recommended colleges by 99 and 87 in accepted colleges.
- Develop the Android APP and Web backend.
  - Using distributed SpringBoot framework to achieve good concurrency performance.

<b>Mass spectrometry image recognition</b>	2021.04 – 2022.02
<i>Algorithm Design And Experimental Verification</i>	

Using image recognition method to process complex protein data greatly simplifies the classification of different protein categories.

- Exceed the SOTA scores of AUC and ACC in the same field algorithms.
- Construct a light End-to-End network to fit the small amount of data.
- Add a noise reduction module to denoise the data.
- Training steps are simple and easy to use.

<b>Research on Re-ID for video stream in airport</b>	2022.04 – 2022.05
<i>Algorithm Design</i>	

In view of the complex image situation after portrait cutting under the background of airport surveillance, image processing and retrieval algorithm is designed named E3ID (End-to-End Unsupervised Re-ID) model. **gitCode**

- Filter relatively static portrait by adjacent time boxes of YOLO.
- Remove the background to solve the problem of the difference in background, and add the color feature vector to alleviate the problem of excessive extracting features caused by removing the background.

## ⚙️ ENGINEERING PROJECT

<b>Passenger trajectory analysis project of Guangzhou Baiyun Airport</b>	2022.01 – Present
<i>Algorithm Design, Performance Evaluation And Optimization</i>	

Through analysing the trajectory of passengers in the monitoring video of the terminal realize passenger positioning and distributed situational awareness. **📄Code**

- Construct an algorithm to generate passenger track and query the location of passengers.
- Optimize the algorithm performance and the file storage.

## Electronic epidemiological survey system

2022.03 – Present

*Backend Develop, Database Design*

To provide assistance to the epidemic outbreak in Changchun and relieve the pressure of staff. It is also hoped that the system can be used for more different types of epidemiological survey in the future.

- Provides backend services for Web, Android, IOS and wechat small program.
- Have good concurrent performance, meet the use requirements.
- 🍏The APP is now open for distribution in Apple Store.
  - APP Name: LiuDiao
  - APP Apple ID: 1619734275

## 📖 PUBLICATIONS(ACCEPTED)

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**WANG Ze-qing**, Ji Sheng-peng, Li Xin, ZHAO Zi-xuan, WANG Peng-xu, HAN Xiao-song. A Novel College Entrance Filling Recommendation Algorithm Based on Score Line Prediction and Multi-feature Fusion[J]. Computer Science, 2022, 49(S2). 📄 **Code&Paper**

- The first author
- CCF recommends Category B Chinese periodicals, Core periodical of PKU

## ⚙️ SKILLS

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- Programming Languages: Python == C++ > Java > C > PHP > C#
- Deep Learning Framework: Pytorch
- Development Platform: Linux
- Development Skills: SpringBoot, Android, Web

## 🌟 HONORS AND AWARDS(SELECTED)

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CASC Scholarship for Undergraduate Students( <i>15 Students In Total Around The School</i> )	2021
First Class Scholarship Of Jilin University( <i>For Two Consecutive Years</i> )	2020&2021
College Excellent Student Of Jilin University( <i>For Two Consecutive Years</i> )	2020&2021
Individual Scholarship Of Jilin University(2021)	2021
First Prize for National Mathematical Modeling Contest in Jilin division	2021
Second Prize for "Challenge Cup" Of Jilin University	2021

## 📄 OTHERS

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- Blog: <https://www.naptmn.cn>
- GitHub: <https://github.com/naptm>
- Gitee: <https://gitee.com/naptmn>