

Yichen Ma

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Education

M.S. Electrical and Computer Engineering University of California, Irvine **Sept. 2018 – Mar. 2020**
B.S. Electrical and Computer Engineering Beijing University of Technology **Sept. 2014 – Jun. 2018**
GPA: 3.52

Skills

Frameworks: Android, TensorFlow, Caffe, Keras, Theano, Spring boot

Languages: Python, Java, JavaScript, C

Other Knowledge: SQL, Linux

Work Experience

Xiushui Street Co., Ltd. **Feb. 2018 – Jun. 2018**

Software Engineer

- Responsible for the part of the project **Intelligent Express Cabinet**, realizing the face recognition function
- The camera captures the customer's face image to achieve customer **face recognition** and has an effect on identity verification.
- Convolutional **neural network** as a learning framework for **Deep Learning**
- First, the face image of the "customer" is collected in advance by the camera, and then the sample suitable for training is selected.
- Using most of the sample pictures to invest in the training network for training. After training, using the remaining small sample image to test.
- The accuracy reaches more than **90%**

Project Experience

Participant, China RoboCup Robot Competition Medium Group **Apr. 2016 – May. 2016**

- Debugged software to allow robots to recognize football under various lighting conditions
- Conducted Free-kick by the trainer to control the robot on the pitch and debugged curvature
- Increased the acceleration of the robot at the lower limit of 200 units, and reduced the acceleration limit of 300 in deceleration to complete the ball-chasing action
- Modified the path planning of the robot, and set up random variables to make each turning randomly
- Won the championship

Participant, Intelligent Laboratory management system based on IoT **Nov. 2016 – May. 2017**

- Equipped classroom with a single-chip, **RFID** card reader, an **Android** system with a panel system
- Updated the database with the designed **app** on the teacher's side
- Connected the app to the **database** of **Baidu Cloud** to achieve the desired functionality
- By reading the ID from the student card, find the corresponding data in the database. Determine if the student is in the right place at the right time. Otherwise displaying the right schedule on the screen

Participant, Smart Fish Tank based on WiFi module **Feb. 2017 – Sept. 2017**

- Realized water temperature and water level detection through the sensor **DHT11** in the fish tank
- if the measured value exceeds the alarm value, it will send the alarm signal through **WIFI module** to the **handset end**, while simultaneously controlling the water pipe switch to adjust water level

Beijing University of technology **Sept. 2017 – Jan. 2018**

Lab tutor

- Tutored a lab section of Java Programming with 31 students for 6 hours a week
- Helped classmates debug

Followship

Beijing University of Technology Robot Association