

LUO ZIJIAN

+65 98912483 | luozijian@u.nus.edu
wannain.github.io



EDUCATION

University of Electronic Science and Technology of China - IOT Engineering Bachelor

Sep 2016 - Jun 2020

- GPA: 3.68/4.0 (Top 13%)
- Coursework: Principle of Communication (3.9/4.0), Blockchain Technology (4.0/4.0), Signals and System (4.0/4.0), 5G Wireless Access Technology (4.0/4.0), Information Theory (3.7/4.0), Calculus (4.0/4.0), Linear Algebra and Space Analytic Geometry (4.0/4.0), Probability and Statistics (4.0/4.0)

National University of Singapore - Computer Engineering Master

Jan 2021 - Dec 2021

- As a student enrolled this year, I have strong practical skills and rigorous logical thinking skills.

HONORS & AWARDS

Scholarship for Outstanding Students, UESTC

2017, 2019

Excellent Concluding Report, National Students' Innovation and Entrepreneurship Project

Sept 2018

Meritorious Winner, US Interdisciplinary Contest in Modeling (ICM)

Mar 2019

Third Prize Award of Mathematical Modeling Contest, UESTC

Jun 2017

PROFESSIONAL EXPERIENCE

Shiyanlou, SimpleCloud Tech. - Python Course Intern

Jan 2019 - Apr 2019

- Designed Python advanced algorithm course in the online education platform Shiyanlou
- Currently there are 5289 students have studied my courses
- Participated the front-end course testing and updating

RESEARCH EXPERIENCE

3D Human Pose Estimation - Independent Research

Oct 2019 - Jun 2020

- The framework of this algorithm adopts two-stage 3D human pose estimation algorithm, and the training network is based on hourglass network structure.
- Based on the principle of camera imaging, combined with the single hole imaging model, the 3D coordinate of human posture is constrained geometrically, which greatly improves the accuracy of the third coordinate prediction.
- The average joint error (MP JP E) of the whole framework is 56 mm, which is better than the stacked hourglass network at the same level.
- <https://github.com/wannain/3DHumanPose>

Wechat Mini Program of UESTC campus map - Team Leader

Feb 2019 - Jul 2019

- This project is UESTC campus map. Users of this project are all students and teachers of UESTC and visitors who want to visit UESTC. This software system adds some special functions and options to the interface provided by Tencent map. It is a derivative product based on Tencent map.
- As the team leader of the project, I am not only responsible for the progress plan of the entire project, but also responsible for designing the Django framework and database of the mini program.
- https://github.com/wannain/UESTC_Campus_map

Smart Home Control System - Team leader

Mar 2019 - Jun 2019

- Based on ZIGBEE communication protocol stack, the system achieves smart home function in intelligent lighting control panel, such as automatic curtain function and three way lighting switch control function
- Designed the wireless networking function and the gateway module
- Designed the process of temperature control switch
- Tested the effectiveness and improved algorithm efficiency

MISCELLANEOUS

- **Skills:** Python(Excellent), C/C++(Skilled), SQL(Skilled), Solidity (Average), Go(Average)
- **Languages:** Mandarin(Native), English (Fluent)
- **Interests:** Swimming, Photography, Basketball