Ding Ruiyang | Curriculum Vitae

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Education

ShanghaiTech University   **Shanghai,China**
Computer Science & Technology, Master of Science in Engineering   *2017–*

China University of Petroleum   **Qingdao,China**
Automation(Elite Class), Bachelor of Science in Engineering   *2013–2017*

Working Experience

UAV-CL Lab, ShanghaiTech University   **Shanghai, China**
Research Assistant   *March 2017–*

Develop an UAV simulation system with UE4 game engine, verify navigation algorithm under this simulator.
Develop an UAV control system with DJI SDk
- Develop uniform C++ API interface for api control and data collection with LiDAR, ZED stereo camera,etc.
- Develop user interface of status display and point cloud visualization with OpenGL.
- Integrate point registration algorithm, and path-planning algorithm into the system.

Honor

2015 National Undergraduate Electronic Design Contest   **National First Prize**
2015.09, Hangzhou,China   Top 1%
China National Petroleum Corporation Scholarship   **RMB 6000**
2015.11, Qingdao,China   1/123

Projects

○ **ShanghaiTech Teacher-Student Matching System:** *A platform for graduate admission*
https://github.com/JohnDing1995/Selecting-Master-Program-USA
  - Developing an graduate admission platform with Django framework.
  - Developing an CAPTCHA generation system with JavaScript to prevent malicious registration.
  - Using *auth* module to develop the user system.
  - Using relational database to represent the selection model between teacher and student, use *MySQL* for implementation.
  - Developing and web crawler to sync teacher's information form ShanghaiTech's website and generate teacher's account automatically, with *request* and *BeautifulSoup* module.
  - Using *Deferred Acceptance Algorithm* for matching between teachers and students.
○ **Master Application Helper** *An assistant for graduate school selection*
https://github.com/JohnDing1995/shanghaiTechTSmatching
  - Developing an web crawler with *request* and *asyncio* module to fetch admission case from 1point3acres.com asynchronously.
  - Using *MongoDB* for data storage.
  - Using *threading* and *Queue* to solve the blocking problem between data crawling, parsing and writing.
  - Developing an web app with *Flask* web framework and *Bootstrap & JQuery* libraries, which allows users to query crawed admission cases.
  - Using *WSGI,Nginx* to deploy the web app on Tencent Cloud.

- **SCATicket** *ShanghaiTech Cinema Seat Reservation System*
  - Use Django to build back-end services, design and implement RESTful API
  - Use Django-Jet to set up the background management system
  - Designing a relational data model and implementing it with MySQL
  - Design background for visualized seating selection, user selection, seat selection, seat reservation and other functions
  - Use the Django-mail toolkit to automatically send confirmation emails to the user's on-campus mailbox

Technical and Personal skills

- **Programming Languages:**
  C++, Python, Java, Golang.
- **Tools and FrameWork:**
  Linux, Git, MySQL, MangoDB, Django, Flask, Bootstrap.
- **(Nature)Language Skills:**
  Chinese(Native), English(Proficient, TOEFL 101),Dutch(Beginner).