

Ding Ruiyang | Curriculum Vitae

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Education

- **ShanghaiTech University** **Shanghai, China**
2017–
Computer Science & Technology, Master of Science in Engineering
- **China University of Petroleum** **Qingdao, China**
2013–2017
Automation(Elite Class), Bachelor of Science in Engineering

Working Experience

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

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| 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>
 - Develop an graduate admission platform with Django framework.
 - Develop an CAPTCHA generation system with JavaScript to prevent malicious registration.
 - Use *auth* module to develop the user system.
 - Use relational database to represent the selection model between teacher and student, use *MySQL* for implementation.
 - Develop a web crawler to sync teacher's information from ShanghaiTech's website and generate teacher's account automatically, with *request* and *BeautifulSoup* module.
 - Use *Deferred Acceptance Algorithm* for matching between teachers and students.
- **Master Application Helper** *An assistant for graduate school selection*
<https://github.com/JohnDing1995/shanghaiTechTSMatching>
 - Develop a web crawler with *request* and *asyncio* module to fetch admission case from 1point3acres.com asynchronously.
 - Use *MongoDB* for data storage.
 - Use *threading* and *Queue* to solve the blocking problem between data crawling, parsing and writing.
 - Develop a web app with *Flask* web framework and *Bootstrap & JQuery* libraries, which allows users to query crawled admission cases.
 - Use *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
 - Design 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).