

Yang Ruini

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Education

B.Eng. UESTC

2018.09 - 2022.06

Computer Science, Dept. of Computer Science and Engineering

GPA: 3.99 / 4.00, CET-4 601, CET-6 553

Mathematics and Physics Course Grades: Mathematical analysis 87, Random Mathematics and Probability Theory 93, Linear algebra 91, Discrete Mathematics 98

Computer Professional Course Grades: Data Structures and Algorithms 85, Operating System 91, Computer Network 87, Artificial Intelligence 99

Projects & Skills

- ▶ **Sketch Simplification Rendering Based on Reinforcement Learning** 2020.09 - 2021.3
 - Reduce the image dimension through encoder. Simplify the artist's sketch through reinforcement learning framework. A clean sketch directly used for coloring will finally generated. This work refers to a series of sketch simplification work of Waseda University.
 - Use Pytorch to optimize based on CartoonGAN, AdaIN and U-Net models.
- ▶ **Flutter-Based Message Application** 2020.12
 - Implement a simple interface UI similar to QQ with Google Flutter framework, and going to implement the message module with Leancloud's message API service and Agora's audio and video API service.
- ▶ **Artificial Intelligence Course Assignment** 2020.09 - 2020.11
 - <https://github.com/KKKirino/Coding-Every-Day/tree/master/2020/ai-course-exercise>
 - Implemente the A* heuristic search algorithm to solve the eight-digit problem. Implement the decision tree establishment and pruning process. Implement the back propagation algorithm of the neural network containing a hidden layer and Sigmoid activation function.
 - Implemented by Python. Strictly abide by the PEP8 code style specification. Use Python 3 Typing system to improve code readability. Provide complete comments for functions, and ensure code quality.
- ▶ **Summer Production Internship: National Flight Big Data Visualization Platform** 2020.06 - 2020.08
 - Summer production internship project in the second semester of the sophomore year. Crawl the national flight data based on the Flask + Spark framework. Analyze data by Spark framework. Save the data in the MySQL database. Display it through the front-end page.
 - Responsible for the front-end page display part. Load the data to the front-end interface through Ajax requests. Use the ECharts chart library for visualization.

Honors

- Google HashCode 2021, International Ranking #1736(Top 15%), China Ranking #32 2021.02
- Asia and Pacific Mathematical Contest in Modeling 2020 Second Prize 2020.11
- Second prize Scholarship of Yingcai Honors College of UESTC for two consecutive years 2019, 2020