Suyang Chen

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EDUCATION:

University of Arizona 05/2018 - Expected 05/2021
Major: Computer Science
Minor: Mathematics

- GPA: 3.783
- Honors: Honorable Mention for Fall 2018, Dean's List with Distinction for Spring 2019, Academic Year Highest Academic Distinction in 2019, Offer from Honor College 2019

WORK AND RESEARCH EXPERIENCE:

The University of Arizona College of Science Tucson, Arizona
Honor Thesis Research 09/2020 - Present

- Applied the multi-perspective simultaneous embedding algorithm (MPSE) to the problem of 3D reconstruction based on 100,000+ 2D data from multiple viewpoints;
- Further optimized MPSE for speed by 30%+ with the innovative use of "Structure From Motion" technique and matrix reduction algorithm;
- Extended the current MPSE algorithm by handling cases of possible hidden points in projection planes, which increases the quality by 20% on 10+ datasets.

The University of Arizona College of Engineering Tucson, Arizona
Undergraduate Research 01/2019- 09/2019

- Generated the datasets of appropriate answers by implementing applying Python crawler on several main search engines such as Google, Yahoo and Bing, etc.
- Executed data preprocessing and classifier training in NLP research by applying Word2Vec and NLTK, successfully implementing Chat Bot using Python.

PROJECT EXPERIENCE:

ChatRoom

- Implemented Chat Room application based on C/S model, linux socket, and multi-thread programming in C and Linux environment with more than 2k+ lines of code, with the thread pool to improve the server performance.

Compiler

- Implemented a compiler having functions including syntax parse, semantic checking, abstract syntax tree generation, and assembly instruction generation.

Puzzleplat

- Implemented a modified Mario GUI game in Java by applying javaFX, whose features include the difficulty selection, hidden map, moving actions, and obstacles or keys to entertain the game, and fully animated game characters by using Sprite animation.

SKILLS AND ACTIVITIES:

- **Skills:** Proficient in Python, C, Java, SQL, Unix, algorithm, data structure, computer system, distributed system, parallel computing, networking, security and active open source contributions on coala, libvirt, and visma, etc.
- **Activities:** ACM contest (Top 4) on school and regional level in Oct 2019/Oct 2018; Hack Arizona inJan 2019; Computer Science Teaching Assistant since Jan 2020