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Cunji Song

EDUCATION

-**University of California, San Diego**
  M.S in Mechanical Engineering,   Anticipated Graduation Dec 2020
-**Tianjin University (top 15 in China)**
  B.S in Mechanical Engineering,   2015.9 - 2019.7
-**CS Related Courses Taken** (overall GPA: 3.71):
  Computer Networking; Advanced Data Structure; Algorithm Design and Analysis; Principle of
  Operating System; Introduction to Computing Principles; Basis of Computer Software Techniques

SKILLS

- Proficient: Java, Python, C++, git, HTML, CSS, Unix, C
- Intermediate: SQL, Android Studio, JavaScript

RELATED EXPERIENCE

Garbage classification, Tianjin University   April 2019
-Won Grand Prize in a Campus Coding Competition by developing a website that helps users with
classifying recyclable and non-recyclable garbage in a team.
-Constructed the relational database as backend using AWS services.
-Language and frameworks: AWS, SQL, JavaScript, Python, HTML, CSS, Bootstrap

On site bookstore, Tianjin University   May 2019
- Built an onsite bookstore in a commercial competition and won second prize.
- Used Spring Boot to develop backend and use JavaScript and JQuery to manipulate DOM objects.
- Language and frameworks: HTML, CSS, SQL, JavaScript, Git

Alien Invasion, Tianjin University   May 2019
- Initiated a vertical scrolling shooter arcade video game with multiple levels with teammates and won second prize
- Designed the mechanism and implemented it with Python and Pygame library.
- Language and frameworks: Python, Pygame, Git

PROJECTS

Navigation/Recommendation System, UCSD
- Found out the shortest path among two or more input locations.
- Language and frameworks: C++, A* algorithm

Social Network Model, UCSD
- Designed and implemented a social network model using relationship data from Facebook to test the "Six Degrees of Separation data"
- Discovered certain sub-circles among the university. And created a recommendation system with this model.
- Language and frameworks: C++, Meson