**SU LI**

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**EDUCATION**

**UNIVERSITY OF CALIFORNIA, SAN DIEGO**

Master’s Degree | Computer Science and Engineering Expected Dec. 2022

* GPA: **4.00/4.00**

**UNIVERSITY OF ELETRONIC SCIENCE AND TECHNOLOGY OF CHINA**

Bachelor’s Degree | Automation June 2019

* GPA: **3.96/4.00** Ranking: **3/173**
* National Scholarship
* **Outstanding Graduate Honor Student**

**WORK EXPERIENCE**

**BYTEDANCE, China, Beijing** March-July 2021

***Software Engineer, Intern***

**Marketing web pages**

* Developed 10-15 pages for a marketing activity using **React**, **Typescript** and **Less**.
* To speed up information interaction between pages, refactored the way of communicating from query to centralized front-end database which greatly reduced code line and improved work efficiency.

**Log-in system**

* Built the front-end of a log-in system for a mini-program in WeChat, which brought about 10% website traffic growth.

**Poster Rendering**

* Re-designed the rendering algorithm for fast rendering of car posters in front-end. The algorithm reduced time complexity from O(n^2) to O(n). It reduced the response time by 100 times.
* Addressed the problem of line wrapping when dealing with different character set using Hash Table.

**PROJECT EXPERIENCE**

**MAHJONG GAME SUGGESTION PAGE**

* Using **Django, MySQL, React,** built a mahjong strategy system. The suggestions were based on Graph Theory. Game states were considered as nodes in a graph. The algorithm finds the maximum-expectation path to win the game.

**COMPETITION**

**GAME PLAY PREDICTION** Fall 2020

<https://www.kaggle.com/c/cse158258-fa20-play-prediction/leaderboard>

Ranking: **2/672**

* Built a recommendation system that predict if a user would buy a game on steam according to the purchase histories.
* Invented a Soft-Bayesian-Personalized-Ranking algorithm that over-perform than normal one-class method.

**Mathematical Contest in Modeling**

**Forecast on Energy Structure based on Improved Markov Chain** Feb. 2018

Awarded as Meritorious Winner **(top 8.88%)**

* Improved Markov Chain to make it continuous and suitable for continuous value predicting.
* Proposed an energy structure forecasting system for four U.S. states. Gave practical suggestions on energy structure.

**RESEARCH**

FULLY CAPSNET FOR SEMANTIC SEGMENTATION [C]. The First Chinese Conference on Pattern Recognition and Computer Vision. Guangzhou, China, 2018

* Introduced Dynamic-Routing algorithm to fully convolutional network that increased the IOU by about 10 percent.
* The paper was published on the First Chinese Conference on Pattern Recognition and Computer Vision.

**SKILLS**

* Computer Language: C++, Python, ECMAScript, TypeScript, CSS, HTML
* Framework: Node.js, React.js, Vue.js, Less.js, TensorFlow, PyTorch, Numpy, other basic Python tools.