**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 Jun. 2019

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

**WORK EXPERIENCE**

**ByteDance, China, Beijing** Mar. - Jul. 2021

***Software Engineer, Intern***

**Marketing web pages**

* Developed 10-15 web pages for a marketing activity using **React**, **TypeScript** and **Less**
* Refactored the way of communicating from query to centralized **Front-End database** to speed up information interaction between pages, 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) and 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**

* Built a mahjong strategy system with **Django, MySQL, React.** 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

**PUBLICATION**

**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