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