SU LI

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Expected Jun./Dec. 2022

EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO

Master's Degree | Computer Science and Engineering

• 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

Project I: Marketing web pages

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

Project II: 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.

Project III: 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 turned out to be 100 times faster than before and greatly reduced the responding time.
- Addressed the problem of line wrapping when dealing with different character set.

PROJECT EXPERIENCE

MAHJONG GAME SUGGESTION PAGE

Using **Django**, **MySQL**, **React**, I built a website that could give potential good suggestions for a mahjong player. The suggestions were based on Graph Theory. Every game state is considered as a node in a graph. The algorithm always tries to find the potential maximum-expectation path in the graph and gives good suggestions accordingly

COMPETITION

GAME PLAY PREDICTION

Fall 2020

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

Ranking: 2/672

- Built a recommender system that predict whether a user would buy a game on steam according to 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 is 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.