

SU LI

suli@ucsd.edu | (858) 319-5520 | [linkedin.com/in/su-li-653617223](https://www.linkedin.com/in/su-li-653617223) | 4067 Miramar St., La Jolla, San Diego, CA

EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO

Master's Degree | Computer Science and Engineering

Expected Jun. 2022

- GPA: **4.00/4.00**

UNIVERSITY OF ELECTRONIC 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