Mao Li

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EDUCATION

Master of Engineering, *University of California at Berkeley*   **09/2021 – 05/2022**
- Major: EECS with concentration on Data Science and System
- Reward: Received **20,000 dollars** Fung Institute Leadership Scholarship

Bachelor of Science, *University of California at San Diego*   **09/2016 – 06/2020**
- Major: Computer Science | GPA: **3.96/4.0**, ranked **top 2%** of the class
- Honor: **Summa Cum Laude**, member of Tau Beta Pi Engineering Honor Society

EXPERIENCE

Undergraduate Researcher, *DebateStar*   **10/2019 – 03/2020**
- Utilized NLP tools to analyze the persuasiveness of debate under the guidance of prof Jingbo Shang
- Tailored GloVe embedding and attention mechanisms to extra relevant information from debate speeches
- Implemented LSTM to capture long-term dependency and gain insight on logical structure within speech scripts
- Built an interactive online platform with Node.js and deployed via AWS: https://debatestar.net

Software Engineering Intern, *SV Summit Inc*.   **07/2019 – 09/2019**
- Developed an online learning management system for technical training following MVC pattern
- Designed data scheme, managed platform data in MS SQL, and implemented ORM with SQLAlechmy
- Implemented backend data serving using Python Flask and built RESTFUL APTs for front end clients
- Built modularized user interface with React and Material UI and handled data flow with Redux State Container
- Deployed on AWS EC2 with Nginx & Gunicorn, configured reverse proxy load balancer to improve QPS by 37%

Tutor, *UC San Diego Jacobs School of Engineering*   **03/2019 – 12/2019**
- Tutored CSE158 FA19 (Recommender system and data mining) under guidance of prof. Julian McAuley
- Tutored DSC30 SP19 (Data Structure and Algorithm) under guidance of prof. Marina Langlois
- Assisted professors in preparing and grading exams and helped students with concepts, practice and assignment
- Organized mini sessions to review essential concepts and go over practice problems through active discussions

President, *UC San Diego Triple C* (https://www.uscdtriplec.org)   **03/2019 – 06/2020**
- Led Triple C, one of UCSD's largest student incubators which consists of 100+ members and 12+ CS/DS projects
- Organized coding parties, tech workshops and internal career fairs to foster geek and entrepreneur culture
- Collaborated with leadership team to tunnel academic, industrial, and financial resources for each project's needs

PROJECTS

Letsrandom.net, an online random selector for food and entertainment   **09/2019 – 12/2019**
- Developed a minimalist, unopinionated random selector to for local restaurants and party games
- Built data pipeline to collect restaurants information from Yelp, store and manage it in MySQL server
- Implemented a Node.js backend server and generated random selections using atmospheric noise
- Designed the user interface using Bootstrap 4 and built frontend logic with JavaScript and jQuery

Recommender System, a predictor and a classifier on Amazon and Yelp's dataset   **09/2018 – 12/2018**
- Built category classifier on Amazon and Yelp's dataset (200k+), with accuracy ranked 2nd out of 355
- Designed the classifier using linear SVM, extracting features from review text and purchase history
- Customized collaborative filtering algorithm for purchase prediction, ranked top 12% on Kaggle

SKILLS & OBJECTIVE

Programming Languages: Java, Python, JavaScript, SQL, HTML/CSS, C++

Skills and Framework: backend development with Node.js, Flask, MongoDB, SpringMVC and Postman; frontend development with React, Bootstrap, MaterialUI and HTML/CSS.

Objective: Full-time position starting at 2022 summer or fall.