MENGQI (Barrett) WANG

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Education Information

University of Southern California (USC)   2021.01 – 2025.05

- Majors: B.A. in Applied Math & B.S. in Computer Science | GPA: 3.96/4.0
- Honors: Dean List (2021 – Pre.); USC Viterbi School of Engineering W.V.T. Rusch Undergraduate Engineering Honors Program; Academic Achievement Award

Summer Session: **Stanford University**   2023.06 – 2023.08

- Took Artificial Intelligence (CS221) and Machine Learning(CS229) classes in person

Coursera: Machine Learning specializations by DeepLearning.AI and Stanford University   2023.04

Expertise

- C++, Python, Java, HTML, CSS, JavaScript, SQL, Machine Learning, Tensorflow, Assembly, Pytorch, Llama3, Gemma

Work Experiences

Guotai Junan   Shanghai

Data analyst   2022.04 – 2022.08

- Assisted in data cleaning and screening to calculate annual stock yields, volatility, Sharpe ratio, etc.
- Conducted graphic beautification with the date of changes of stock prices, stock yields, and volatility
- Built basic models based on the data of market values of semiconductor companies in A-shares to analyze the changes in the past two years, categorized them into small, medium, and large company based on the values, and predicted the trend in the near future
- Individually write the research reports about stock analysis of chip companies in A-shares and collected draft data from East Money Information

University of Southern California   Los Angeles

Course Producer of CSCI170,Discrete Methods in Computer Science, and CSCI 270 Introduction to Algorithms and the Theory of Computing   2023.09 – Pre.

- Conducted two office hour sessions per week to help students with their homework or questions related to the lecture
- Assist the head TAs and Prof to conduct review sessions for students and grade their assignments after the due day
- Lead an exam input team to create several midterms and a final

Software Projects

Yelp Restaurant Search and Reservation

- Allow user to sign up or login on the web app and search for the restaurants by name, location, as well as filter. The web app will respond with 10 restaurants which is the best fit for the user input. Registered users are able to add restaurants to the Favorites, removing the existing restaurants from the Favorites, and add reservation for a certain restaurant

On-Campus shopping platform – SCMarketPro

- On-campus trading web app allows users or guests to buy and sell items, exclusively applicable to USC students. For guests, they can search and check the info of the items they would like to buy. For registered USC students, they can also add the items they like to Bookmark for further use and reach out the sellers if they would like to purchase. To sell products, they can post or update the info of the items they want to sell

On-campus Experiences and Leadership

Founder of School Profile Club   2018.01 – Pre.

- Led students who intended to study abroad at my high school to make an introductory file of our school for colleges all over the world every year from 2018 to 2020
- Cooperate with the principal, as well as team members, to determine the most representative intracurricular and extracurricular activities of our school every year
- Assisting current high school team members to create the file.

Volunteer research assistant at Signal Analysis and Interpretation Laboratory (SAIL) with Prof. Shrikanth Narayanan   2024.1 – Pre.

- Working with a post-doc student to train a model that is used to evaluate the quality and accuracy of synthetic sounds with the combination of generated synthetic data by audio generation model and the real-world sounds as the training set
- Working on the taxonomy for different synthetic sounds as training data, such as soundable vs unsoundable and spots vs non-sports