Xinyu (Lindsey) Feng

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Education

University of Southern California current GPA: 3.83/4, Dean's List   **Aug. 2019 – May. 2023**

B.S in Applied and Computational Math, B.S in Computer Science

Relevant Courses: Software Development, Introduction to Computer System, Introduction to Algorithms, Data Structure and Object-Oriented Design, Discrete Methods in Computer Science, Probability Theory, Mathematical Statistics, Linear Algebra and Linear Differential Equations, Multivariable Calculus.

Experiences

INK Lab @ USC, Research Assistant   **Mar. 2021 - Present**
- Designed and implemented a visualization dashboard for the process and results of sentiment analysis using **d3.js and JavaScript**; code integrated into the LEAN-LIFE project.
- Developed a web interface for researchers to interact with NLP models and displayed results using **bootstrap, HTML and JavaScript**. The website is scheduled to be launched by Mar. 2022.
- Working on experimentation of entity recognition models with a five-people team using pretrained models (transformer, BERT and SBERT) with PyTorch. Publication is under preparation.

Huatai Securities, Machine Learning Intern   **July. 2021- Aug. 2021**
- Developed multiple linear models and related methods, including **gradient descent, linear regression, logistic regression, perceptron, general linear models** from scratch using **Python and Numpy.**
- Created a general linear model **using scikit-learn, pandas and python** for stock price predictions with data from the Chinese stock market. Gained 23.2% revenue growth during simulation.

Pactera, Robotic Processing Automation Intern   **July. 2020 – Aug. 2021**
- Implemented an automated script that helps with account lookup on Microsoft Excel.
- Compiled documentations and translated ECMA-262 into Chinese to help with the development.

Projects

Text Generator   **Aug. 2021 - Now**
- Currently developing a website that generates fanfiction using **RNN model to predict, Java as the backend language and vanilla HTML, CSS, and JavaScript as the frontend language.**

SalStock   **Apr. 2021 – May. 2021**
- The program allows users to look up stock info from Tiingo API and conduct stock exchanges. The authentication system supports Google Signin.
- Contributed 4k lines of code using Java, HTML, JavaScript, jQuery, JavaServlet.

Scrabble   **Nov.2020 – Dec. 2020**
- The program reads in files and data provided by users to visualize a 2D grid for the game.
- The program supports at most five human/AI players concurrently.
- At each player's turn, the player has three choices (Pass, Change, Place). The game provides corresponding feedback for each instruction the player gives. By the end of each turn, the game board and leaderboard would be printed out.
- The program is written using C++.

Skills

Language: C++, Java, Python, JavaScript, C, R, HTML, CSS, MySQL,
Tools: Bootstrap, Docker, scikit-learn, pandas, Git, PyTorch, Django, Vue, GCP
Interests: Anime, Games, Classical music, Baking

Honors

- Center for Undergraduate Research in Viterbi Engineering (CURVE) Fellowship   2021-2022