Yining Wang

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EDUCATION:

University of California, Los Angeles

B.S. in Computer Science June 2021, GPA: 3.67

TECHNICAL SKILLS:

Proficient: C++

Intermediate: C, Python, Java, JavaScript, TypeScript, R, MySQL, Postgres, MongoDB, HTML, CSS, Node.js, Tomcat, Django, Express, Angular, React, Redux, Git, Docker, Linux, TensorFlow, Keras, REST, GraphQL

EXPERIENCE:

Software Engineer Intern, NeuralX July 2020- September 2020

- Worked on the frontend of a fashion trend analysis website (*fashionX*) using **React** and **Redux.**
- Implemented the fashion trend analysis report filter and the pattern report page with data visualization using Material-UI, Apache ECharts, and chart.js.

DevOps Staff, UCLA Student Media October 2019- March 2020

- Implemented a messaging system, a workshop assignment/sign-in system, and an application statistics report page for the UCLA Student Media job application website.
- Website is based on **Django** and uses **PostgreSQL** as the database.
- Website is used by all UCLA publications and relevant departments and has around 30000 requests every year.

Software Engineer Intern, Tuoneng(Tunec) Technology August 2019- September 2019

- Implemented a facial recognition system prototype in a server cabinet access control system with **Python.**
- Built a data pipeline to take frames from a webcam at a dynamic pace using OpenCV and used face_recognition to locate faces and perform facial validation.
- Incorporated multiprocessing to boost the performance by 4 times

PROJECTS: (Available on my GitHub: https://github.com/kyswn)

Markdown Blog Website May 2020

- Led team of two to implement a single-page fully functional Markdown blog website
- Built the backend **REST APIs** using **Nodejs**, **Express**, and **MongoDB**, and the frontend using **Angular**
- Implemented login with JWT cookie, and a real-time blog list. Enabled previewing Markdown effect

Reddit Comments Political Sentiment Analysis May 2019

- Analyzed the sentiments towards President Trump on r/politics in 2016.
- Passed the reddit posts data in JSON file to Spark, cleaned the data and returned them in unigram, bigram, and trigram form, and then built new attributes using **PostgreSQL**
- Trained a logistic regression sentiment classifier using MLlib package on labeled data and employed the model to analyze the sentiments and created data visualization using Matplotlib**.**

Movie Rating Prediction February 2019

- Led a team to predict how individuals would rate movies based on how they rate other movies and their attributes with scikit-learn (**Python**), with the data size of ten thousand users and 130 thousand movies
- Employed PCA to reduce the dimension of the movie attributes matrix. Then used **K-means** to cluster the movies and the users with **10-Fold Cross Validation**, and then made new attributes and finally trained a **linear regression** model.
- Placed 5th place in Kaggle competition and achieved a 0.91 root mean squared error.

"Nachenblaster" January 2018

- Created a 2-D horizontal shoot 'em up game using **C++** with **OOP** principles.
- Used **polymorphism** to create a complicated enemy hierarchy system featuring different moving patterns, looks, duration, and weapons, a weapon hierarchy system featuring different looks, moving patterns, and damage, and a power-up hierarchy system featuring different functions and looks.
- Implemented different levels of difficulty.

ACTIVITIES& CERTIFICATES:

Deep Learning Specialization, Coursera Summer 2020

Dean's Honors List, UCLA Spring 2019, Spring 2020

UCLA UPE (Upsilon Pi Epsilon, Computer Science Honor Society) Fall 2018 -present

UCLA Dragon Boat (Club Sport, 15 Hours/Week Commitment, National Competitions) Fall 2018-present