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++, C

Intermediate: Python, Java, JavaScript, R, Ocaml, LISP, SQL, MongoDB, HTML, CSS, Node.js, Tomcat, Django, Express, Angular, React, Redux, Git, Docker, Linux, TensorFlow, Keras

EXPERIENCE:

Software Engineer Intern, NeuralX June 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 (*https://apply.uclastudentmedia.com/) 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, Tunec Technology (http://www.tunec.com/) August 2019- September 2019

- Implemented a facial recognition 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 and employed **PyQT** to architect an interface.

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

Reddit Comments Political Sentiment Analysis May 2019

- Analyzed the sentiments towards President Trump on r/politics in 2016.
- Passed the 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.**

"TuneSearch" April 2019

- Created a search engine for song lyrics using **Flask** and **PostgreSQL** as database.
- Enabled complicated custom search options. Sorted the result by TF-IDF value and enabled pagination.

Movie Rating Prediction February 2019

- Led a **Machine Learning** project to create a **Python** program predicting how individuals would rate movies based on how they rate other movies and their attributes, with the data size of ten thousand users and 130 thousand movies.
- Used **Scikit-learn** to employ 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 2020 Summer

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

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