Yining Wang

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EDUCATION:

University of California, Los Angeles

B.S. in Computer Science, with Tech Breadth in Mathematics June 2021, GPA: 3.62

TECHNICAL SKILLS AND COURSES:

Proficient: C++, C

Intermediate: Python, Java, PostgreSQL, MySQL, R, HTML, JavaScript, Django, Git, Docker, Linux, Android (Java), Ocaml, LISP, Algorithms, Machine Learning, Operating System, Network, Arduino, Beaglebone

EXPERIENCE:

*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** (**Python**+ **HTML** + **CSS+ JavaScript**) and uses **PostgreSQL** as the database.
- Website is used by all UCLA publications and relevant departments and has around 30000 requests every year. The features I developed will save managers 20 minutes for every application.

Software Engineer Intern, Tunec Technology (http://www.tunec.com/) August 2019- September 2019

- Implemented a facial recognition program embedded 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

- Analyze the sentiments towards President Trump on r/politics with heavy use of **PostgreSQL.**
- Passed the data in JSON file to **Spark**, cleaned the data and returned them in unigram, bigram, and trigram form, and then build new attribute vector using **PostgreSQL**
- Trained a **logistic regression** sentiment classifier using **MLlib** package on labeled data and employed the model to analyze the sentiments towards Trump in r/politics, in terms of state, time, and score, and created plots and maps accordingly using **Matplotlib.**

"TuneSearch" April 2019

- Lead a project to create 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 some 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:

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

Computer Science Classes Tutor, UCLA UPE 2018 Fall-2019 Spring

Captain, Varsity Soccer, Nanjing Foreign Languages School 2014 Fall-2017 Summer