

# YITING(STELLA) WANG

Tel: 213-705-2182 | Email: ywang514@usc.edu | Address: Los Angeles, CA, 90007

linkedin.com/in/yiting-wang-4b9675223/ | github.com/yitingstellawong

## Summary

- Seek a **Software Development Engineer position**. Have several hands-on industrial experiences in **Big Data area**.
- A quick learner with passion about state-of-the-art techniques. Solid background on **Algorithms / Data Structure / Recommendation System / Web Developer / Data Mining / Machine Learning**.

## Educational Background

**University of Southern California (USC), Viterbi School of Engineering** Los Angeles, CA, USA

- M.S. in Applied Data Science Aug 2021 - May 2023
- Related Course: Algorithms, Website Technologies, Data Mining, Machine Learning, Database Systems.

**University of International Business and Economics (UIBE)** Beijing, China

- B.E. in Quantitative Finance (Honor) Sep 2017 - Jun 2021

## Computer Skills

Programming Languages: C/C++, **Python**, Java, Front-End technologies (**JavaScript, HTML, CSS**), MATLAB, R.

Tools: **React, Node.js, SQL, NoSQL**(PostgreSQL, Firebase, MongoDB, DynamoDB), Git & Github, Tableau.

Frameworks: **Flask, AWS, Spark**, Hadoop, scikit-learn, TensorFlow, Keras.

Algorithms: **K-Means, Tree-based Methods, NLP, SVM, Locality-Sensitive Hashing, Text Mining, Image Analysis**.

## Work Experiences

**Minmetals Inc** Beijing, China

Data Engineer Intern in Finance Group Sep 2020 - Jun 2021

- Minmetals Inc is one of the largest metals and minerals trading companies in the world, handling **more than 12 million tons** of steel products annually. Worked through **big data and cross-team projects**.
- **Researched** various latest papers of applying machine learning algorithms into the financial asset price prediction. **Utilized improved regression, tree-based methods, SVM algorithms in Python** to predict future prices of metals; **Increased 0.17%, 0.21% and 0.25% AUC** of the models. Beat 90% competitors in the stimulation trading.
- **Design, implement, and maintain efficient data pipelines (ETL)** to integrate data from various sources into a platform; Used **SQL** to process millions of daily stock data in the Stock Exchange; Used **Python** to constructed MKT, SMB, HML and VMG variables to apply **FM regression** to **detect 10 anomalies** in the stock trading market.

**Soochow Securities Co., Ltd.** Beijing, China

Data Scientist Intern Jan 2020 - Jul 2020

- Used **SQL** to extract and process data of economic policy uncertainty(EPU) and Bitcoin prices;
- Designed and built dashboards with **Tableau** to automate reporting and optimize data visualization procedures.

## Project Experiences

**Website about Latest Crime near USC Campus – Full Stack Web Technologies**

- Used **HTML, CSS** to build website pages and **JavaScript** to help realize the function of signing up;
- Wrote SQL files as store procedures for Python application to interact with **MySQL** database;
- Realized **signing up, signing in, searching, adding** and other functions using **Python Flask**.

## Recommendation System

- Built an **item-based CF recommendation system** with Pearson similarity using yelp dataset with **Spark Rdd**;
- Used **Spark Rdd** to select the features and **XGBRegressor** to build model-based and hybrid recommendation systems;
- Predicted the stars for given user ids and business ids and **reduced the RMSE to 0.97** successfully.