Yijun Zhang (Flora)

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EDUCATION

- **Texas A&M University** — College Station, TX
  Master of Computer Science; GPA: 3.7/4.0 — *Aug. 2019 – May. 2021*

- **Sun Yat-sen University** — Guangzhou, China
  Bachelor of Science in Resources Environment; GPA: 3.8/4.0 — *Sep. 2014 – July. 2018*

SELECTED COURSES

- Analysis of Algorithms, Web Programming with Python and JavaScript, Machine Learning, Software Engineering, Computer Architecture, Operating System, Distributed Systems and Cloud Computing

EXPERIENCE

- **Texas A&M University** — College Station, TX
  Research Assistant — *Oct 2019 - Dec 2019*
    - **Map Reduce**: EMR (Elastic MapReduce) service of AWS, Python, and Hadoop streaming are used to implement and execute a MapReduce program. The program reads 277,744,063 original tweets and outputs reply relationships between two tweets.
    - **Topic Finding**: Python is used to find out the ten most mentioned users and top hashtags. The LDA algorithm provided by the Spark Machine Learning library is used to find out the ten most important topics.
    - **Graph Analysis**: Python and Pregel implementation from GraphFrames library are used to construct the tweet reply network, to find out the top replied to tweets, and to calculate the longest paths for all reply graphs in the network.

PROJECTS

- **College Map of UC-Berkeley (Java)**
    - Implemented the back end of a web server with multiple functions including zoom in and zoom out, finding the route, auto-complete, and search system.
    - This application is deployed to Heroku. (http://bearmaps-floramap.herokuapp.com/map.html)

- **Pizza Order and Delivery website (Python, Django, HTML, CSS, JavaScript)**
    - A web application for handling a pizza restaurant's online orders.
    - Users can browse the restaurant's menu, add items to their cart, and submit their orders, and restaurant owners can add, update, and remove items on the menu.

- **Web Fetching API (AWS: Lambda, API Gateway, S3, EC2, Python)**
    - Built a web API that will accept a parameter from user and trigger a Lambda function to download the web content as an object in the block storage (Amazon S3).
    - Used AWS EC2 to run a virtual machine instance that is constantly running in the back-end to monitor the object storage in S3 and generate hash values for each new page registered.

- **Explore Game (Java)**
    - In a 2D tile-based world, players can begin a new game, load game or quit, and use the keyboard to control the movement of the avatar.

- **Book Review Website (Python, PostgreSQL, Flask, Bootstrap)**
    - Users can search for books, log in/out, leave reviews for individual books, and read others' reviews.

SKILLS

- **Programming**: Java, Python, JavaScript, Shell, SQL

- **Technologies**: HTML, CSS, jQuery, RESTful, Django, Flask, Jinja, React, Angular, Json, Node, Bootstrap, Git, Hadoop, AWS(EC2, S3, Lambda), Spark, Ruby