Ye Xiao

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EDUCATION

University of Southern California   **Los Angeles, CA**
M.S in Applied Data Science (GPA:3.85/4.0)   *Jan 2019 - Present*

Relevant Course: Algorithm, Data Mining, Database, Machine Learning, Data Visualization, Knowledge Graph

Central China Normal University   **Wuhan, Hubei**
B.S in Applied Mathematics and B.S in Physics   *Sept 2014 - June 2018*

PROFESSIONAL EXPERIENCE

Fiberhome Information Integration Co.,Ltd - DJANGO, MYSQL   **China**
Software Development Engineer Intern   *Feb 2018 - Aug 2018*
- Implemented the resource alarm module of the web portal for FitOS(cloud operating system) via Django.
- Implemented the rbac policy and log system via logging.
- Cooperated with the testing group to debug and optimize code performance.
- Cooperated with product manager to design the refactoring PRD.

LinkSprite(Wuhan) Electronic Technology Co.,Ltd - TECHNOLOGY DEPARTMENT   **China**
Software Development Engineer Intern   *July 2017 - Aug 2017*
- Designed web scrawlers via Scrapy and Scrapy-Redis for the massive ID image dataset collecting work.
- Conducted image data ETL pipeline via OpenCV and Pandas.
- Constructed a fast-RCNN via Tensorflow on the image sets for model training and achieved 80% accuracy.

PROJECT

Order Management System
SPRINGBOOT, HIBERNATE, MYSQL, REDIS
- Developed a RESTful web application that helps manage order and product information from both the customer and retailer end.
- Utilized Redis to design product information cache and distributed lock manager for popular items to improve system availability.
- Utilized Redis to store login sessions to maintain user status.
- Utilized WebSocket to achieve order message notification.

Yelp Recommending System
PYTHON, SPARK
- Conducted data ETL pipeline to preprocess 1 million yelp reviews via pyspark.
- Utilized LSH(Locality Sensitive Hash) and Collaborative filtering algorithm to build a recommendation system for users and businesses. Achieved the RMSE value to 0.9.

Music graph
PYTHON, NEO4J
- Collected music data through web-scrawling and web API, create ontology and make entity resolution, build a music knowledge graph.
- Built a recommending system integrated with the graph and achieve an MRR value of 0.5.

Google Auto Completion
JAVA, HADOOP, MYSQL
- Constructed N-Gram Library from wiki dataset, generated language model, and loaded into MySQL.
- Achieved auto-completion by calling the data via JQuery, AJAX.

SKILLS

- **Programming Languages -** Python, Java, JavaScript
- **Web Technology -** jQuery, d3.js, bootstrap, XML, HTML/CSS
- **Tools/Framework -** Spring, Hibernate, Django, Pandas, OpenCV, Tensorflow, AWS, Git
- **Databases/Big Data Ecosystem -** MySQL, MongoDB, neo4j, Hadoop, Spark