

Yiwen Yang

EDUCATION

SOUTHERN METHODIST UNIVERSITY
MS IN COMPUTER SCIENCE
Aug. 2016-May 2018 | Dallas, TX

CHINA UNIVERSITY OF GEOSCIENCES
BS IN GEOGRAPHIC INFORMATION SYSTEM
Sept. 2012-July 2016 | Beijing, China

LINKS

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SKILLS

PROGRAMMING

Python • C++ • Java • SQL
• JavaScript • HTML • XML • JSON

DATABASES

PostgreSQL • MySQL • MongoDB
• Redis • Oracle Database

OTHER

Linux • Git • Numpy • Pandas
• Tensorflow • Keras • VMware
• Spring • REST

COURSEWORK

GRADUATE

Algorithms
Machine Learning in Python
Information Retrieval
Data Mining
Database Management
Cloud Computing
Advanced Computer Network Security
Cryptography
Operating Systems
Computer Architecture

UNDERGRADUATE

Web GIS
Computer Graphic
Data Structure
Software engineering

EXPERIENCE

PEPPERSTONE FINANCIAL PTY LTD. | DATA ANALYST INTERN
May 2017 – July 2017 | Dallas, TX

- Implemented a web crawler by PySpider framework to fetch and parse textual data from DailyForex, increased 10 percent of performance in this phase by applying Redis to cache the intermediate data.
- Utilized Pandas library to clean and analyze data. Trained processed data to extracting key points and built a model to fulfil new question that solved in previous scenario.
- Accomplished a chat bot to recognize and respond to end user by deployed luis.ai API, which is a language understanding intelligent service by Microsoft.

EMERICAN LTD. | ANDROID DEVELOPMENT INTERN
May 2016 – Aug 2016 | Beijing, China

- Designed and modified User Interface in XML and Java
- Conducted unit test and coverage test, tracked issues and classified them measured by different priority level;
- Composed API documentation of backend services, demonstrated internal logic of each entry entity;
- Participated in code reviews, scrum meetings and discussions regarding evolution of product architecture and design.

ACADEMIC PROJECTS

WEB CRAWLER AND QUERY ENGINE | PYTHON

- Fetched a list of URLs and parsed corresponding web content, stemming words and implemented a mechanism to conduct duplicate checking according to its Jaccard coefficient.
- Generated a HashMap for the documents and calculated their tf-idf, compute the cosine similarity for each query against every document.
- Ranked documents by similarity based on the query, implemented a cache system to store frequent query for high performance.

TEXT CLASSIFICATION AND GENERATION | PYTHON

- Preprocessed textual data, applied 3 Keras RNN models to train data: LSTM, GRU, SimpleRNN. Adjusted hyper-parameters of the networks to improve generalization performance.
- Employed the methods of cross validation and evaluation metrics. Visualized best results of RNNs.

COLLEGE STUDENTS' FINANCIAL ACCOUNTING SYSTEM ANDROID APPLICATION | JAVA

- Designed and implemented the User Interface and used MVC pattern to build the app.
- Used the SQLite to keep the details of users' income and expenditures.
- Wrote unit tests for mobile code and debugged critical application issues such as crashes, memory leaks, and concurrency problems.

AWARDS

2015 2nd International Interdisciplinary Contest in Modeling (ICM)
2015 3rd International International Underwater Robot Competition