

HANG YU

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<https://github.com/kakayuw>

EDUCATION

Shanghai Jiao Tong University

Shanghai, China

B.E. Degree in Software Engineering

Sept. 2015 – June 2019 (expected)

- GPA: 3.47 / 4.3

PROFESSIONAL EXPERIENCE

Morgan Stanley

Shanghai, China

Technology Summer Analyst

July 2018 – Sept. 2018

- Developed a customized reporting system for Morgan Stanley Application Security Development team; enabled user of different roles to acquire data and form customized reports
- Designed the specification of IBM DB2-based data relations, defining administrator-defined-user-used workflow in conducting costumed reports
- Visualized SQL script assemblies and filter setting for report auto-generation

SELECTED PROJECTS

Distributed Transaction System for Commodities – Java/Web

May 2018 - June 2018

- Developed a distributed transaction system with trader and broker server logic to meet the visualization and functionality requirements for transaction monitoring
- Established 16-node inter-cluster communication model using open source Quickfix/J and integrated with the system; allowed simultaneous communication between clusters ensuring message correctness and reduced delay below 150ms
- Adopted WebSocket for communication between visualized client side and server side (delay under 50ms)

On-Line Book Store – Java/Web

Mar. 2017 - June 2018

- Developed an online bookstore website using Spring Struts Hibernate framework, allowing browsing through categories, searching for goods, adding to cart, placing orders and administration
- Monitored and prevented XSS, SQL injections; encrypted user information transaction with RSA algorithm; applied JAAS secured log-in mechanism to promote system security levels
- Enabled read/write splitting, master-slave backup on MySQL database, applied cache layer utilizing Memcached between database and apache server, reducing average response time from 1.5s to 150ms;
- Allowed multi-language access and switch; used Logstash to export 50,000 records to Elasticsearch engines and other database for further analysis; implemented visualized search with Kibana

Sentiment Analysis Based on Douban Movie Critics

Apr. 2018 - May 2018

- Crawled 100k+ critics and ratings from Douban.com using Scrapy, preprocessed data and converted to word2vec models
- Conducted SVM, MLP, LSTM classifier training, and compared their respective performance under different test data; weighted model obtained AUC of 0.86 and KS of 0.56
- Applied classifier to sentiment analysis, detailing the emotion tendency of particular users through given time period and emotion tendency of specific genres with visualized graphics

Deep Neural Network Alignment Learning based Pinyin Input Method

June 2016 – Mar. 2018

- Introduced an online sequence-to-sequence model to improve Pinyin-to-Character (P2C) conversion prediction and adaptive performance, performing P2C conversion as the translation between two different languages
- Conducted data preprocessing and model parameter adjustment on the Pytorch framework

ACTIVITIES

Contemporary Undergraduate Mathematical Contest in Modeling, Second Prize

Sept. 2017

The 11th Software Exhibition and Contest – School Level, Second Prize

Nov. 2017

OTHERS

Programming Language: C/C++, Java, PHP, C#, TypeScript, Python, Spark, LaTeX

Database: MySQL, IBM DB2, MongoDB, Neo4J, RocksDB, Redis

Modeling Language: UML, BPMN, PetriNet, EPC