Yifu Wang

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EDUCATION

M.S. Computer Science, Carnegie Mellon University, School of Computer Science

May / 16

Courses: Advanced Data Structure and Algorithms, Machine Learning, Cloud Computing,

Big Data System in Practice, Search Engine

Teaching: Data Structures for Application Programmers, JAVA for Application Programmers

B.S. Software Engineering, Dalian University of Technology

June / 14

Courses: Operating System, Compiler Techniques, Database Systems, Computer Network, Computer Architecture, Data Structure and Algorithms

WORK EXPERIENCE

Software Engineer Intern at Quixey, Inc.

May / 15 - Aug / 15

- Implemented Chinese query tokenizer based on Early parser.
- Using **chart parse** and **dynamic programming** in candidate path elimination.
- 40% faster and 1.6% gain of DCG score compared with previous tokenizer.
- Created **RESTful** Web Services interface using **Jetty**.
- Integrated into Quixey app search and auto suggestion in China market.
- Applied U.S. provisional patent(Application No. 62/216329) for core algorithm.

SDET Intern at VMware, Inc.

Aug / 13 - Feb / 14

- Implemented image comparison plugin for automation testing framework using C#.
- Developed several web applications based on LAMP(Linux, Apache, MySQL, PHP) stack.
- Visualize product development progress, employee KPI, and bug report.
- Generate report in pdf and excel format using historical data.

PROJECTS

DOTA2

• Hero recommendation engine for Dota 2 game. Written in python.

COUNTER-PICK:

- Generated feature matrix from 30000 matches using urllib, numpy, pandas.
- · Applied machine learning algorithms including logistic regression, K-nearest neighbors, SVM with RBF kernel using sci-kit package.
- Achieved 70% accuracy in predicting match outcomes.

BIO-ASK:

- Question answering system in medical field based on UIMA architecture.
- Implemented document retrieval algorithm based on **Stanford NLP** and **Lingpipe**.
- Developed result evaluation system using BM25 and GMAP.

TARTAN ENGINE:

- Simple search engine based on lucene.
- Supports both unstructured and structured query.
- Implemented operators: AND, OR, NEAR, WINDOWS, SYN.
- Implemented several retrieval models: BM25, Indri, Ranked Boolean.

DRAW • Online graphic multiplayer game runs on Linux.

SOMETHING:

- Developed graphic part and network communication part using C++ and Qt.
- Used bezier curve to represent and serialize canvas.
- Implemented multi-thread TCP server using Qt to support concurrent connections.

SKILLS

JAVA, Python, C++, shell script, Javascript, PHP, Scala, R, Matlab Languages:

Other Technologies: Web Development, MySQL, AWS, Hadoop, Elastic Mapreduce, ElasticSearch, Mongo,

Mahout, Lucene, Git