Yifu Wang

PHONE: (626) 226 6282 EMAIL: yifuw@cmu.edu

GITHUB: https://github.com/wangyifu LINKEDIN: https://www.linkedin.com/in/yifuwang

EDUCATION

M.S. Computer Science, Carnegie Mellon University, School of Computer Science 08/14 - 05/16

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

09/10 - 06/14 B.S. Software Engineering, Dalian University of Technology

Courses: Operating System, Compiler Techniques, Database Systems,

Computer Network, Computer Architecture, Data Structure and Algorithms

WORK EXPERIENCE

05/15 - 08/15 Software Engineer Intern at Quixey, Inc.

- Implemented Chinese query tokenizer based on Early parser.
- Using chart parse to store intermediate result.
- Applied dynamic programming in candidate path elimination.
- 40% faster and 1.6% gain of DCG score compared with current tokenizer.
- Integrated into Quixey app search and auto suggestion in China market.
- Intellectual property application has been accepted and in process.

08/13 - 02/14 SDET Intern at VMware, Inc.

- Implemented image comparison plugin of the 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.

PROJECTS

• Question answering system in medical field based on UIMA architecture BIO-ASK:

• Implemented document retrieval algorithm based on Stanford NLP and Lingpipe

• Developed result evaluation system based using BM25 and GMAP

DOTA2 • Hero recommendation engine for Dota 2 game in python.

- COUNTER-PICK: Generated feature matrix from 30000 matches using urllib, numpy, pandas.
 - Suggest heroes based on machine learning algorithms including logistic regression, K-nearest neighbors, SVM with RBF kernel using sci-kit package.

• Achieved 70% accuracy in predicting match outcomes.

- 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 Ot
- Used bezier curve to represent and serialize canvas.
- Implemented multi-thread TCP server using Qt to support concurrent connections.

SKILLS

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

Other Technologies: Web Development(LAMP), Linux, AWS, Guava, Hadoop, ElasticSearch, Mongo, Ma-

hout, Git, Maven, Gradle, Docker