# lizhangzhan(战立章)

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## Summary

lizhangzhan, achieved master's degree in compute sicence and technology from BeiHang University in March 12, 2011, more than six years working experiences in software development and machine learning in advertising recommendation.

## Education

March 2011 Master of Engineering in Computer Science, Beihang University

July 2008 Bachelor of Science in Mathmatics

## Working Experience

## June 2015

#### Senior Researcher, Tencent, Beijing, China

#### Present

Worked on developing online deep learning systems for Click Through Rate Prediction for Display Advertisement Social Ads using Kafka, Storm and Parameter Server etc.

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- ▷ Built an end-end online training pipeline including feature extraction, model training, compression and scheduler for realtime CTR prediction.
- ▷ Optimize asynchronous parallel framework for gradient computation and parameter updating. Originally design layer-level optimization method to stabilize deep learning with online learning algorithms, such as, FTRL, Adam, FTML, Adadelta and KFAC, etc
- > Implement end-end online ensemble models to improve CTR prediction performance.
- > Apply Isotonic regression model for PCTR Calibration

## March 2014

#### Senior Developer Engineer, Bytedance, Beijing, China

**April** 2015

Focused on document multi-label classification and documents deduplication to serve for the news recommendation, document ranking for app news retrieval.

- $\triangleright$  Optimize document multi-label classification with SVM, achieving more than 93% accuracy (average) on the whole.
- ▶ Refactor document deduplication pipeline with simhash and semantic similarity clustering to balance precision-recall and improve system performance.
- $\,\,\vartriangleright\,$  Improve document query results ranking with Lambda Mart model.

#### **April** 2011

### Software Developer Engineer, Oracle, Beijing, China

January 2014

Develop full-text retrieval for man(1) command in Solaris platform, and build text classification with teams in Big Data platform.

- ▶ Develop full-text retrieval for man(1) command in Solaris platform.
- ▷ Build text classification with teams in Big Data platform with SVM/LR/HMM.
- ▶ Experiment keyword extraction for document indexing.

## Open Source Development

## machine-learning-experiments

Collection of machine learning experiments for different models and algorithms.

## **Technical Skills**

Languages Java, C, C++, Python, Scala

Deep Learning Models MLP, CNN, RNN

Optimization Algorithms FTRL, Adadelta, Adam, KFAC Machine Learning Libraries Keras, Tensorflow, Scikit-learn

Data-Processing Frameworks ParameterServer/Storm/Kafka/Spark