

# lizhangzhan(战立章)

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## Summary

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lizhangzhan, achieved master's degree in computer science 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

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**March 2011** Master of Engineering in COMPUTER SCIENCE, Beihang University

**July 2008** Bachelor of Science in MATHEMATICS

## Working Experience

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**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.

- ▷ 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.

- ▷ 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.
- ▷ Improve document query results ranking with [LambdaMart](#) 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

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### [machine-learning-experiments](#)

Collection of machine learning experiments for different models and algorithms.

## Technical Skills

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Languages	Java, C, C++, Python, Scala
Deep Learning Models	MLP, CNN, RNN
Optimization Algorithms	<a href="#">FTRL</a> , <a href="#">Adadelata</a> , Adam, <a href="#">KFAC</a>
Machine Learning Libraries	Keras, Tensorflow, Scikit-learn
Data-Processing Frameworks	ParameterServer/Storm/Kafka/Spark