
Chen Tong

<https://cixuuz.github.io>

CONTACT

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EDUCATION

**Master of Science in
Computer Science**

New York University
01/2018

**Bachelor of Science in
Mathematics**

Beijing Institute of Tech
06/2013

SKILLS

Programming Languages

- Python
- Java/Scala
- JavaScript
- Go

Tech Stack

- Machine Learning
- SQL/MongoDB
- Hadoop/Spark
- Kafka
- Flask/django
- Node.js/React.js

PROFESSIONAL

Data Engineer

7Chord, New York, Jan 2017 – Present

- Build up data ETL pipeline from scratch
- Speed up full text search by elasticsearch
- Analyze and visualize data based on superset, open source from Airbnb

Operation Analyst

Uber Beijing, China, Dec 2014 – Dec 2015

- Optimized, and Maintained ETL pipelines
- Detected drivers' or customers' fraud behaviors by PCA, which reduced detection time by 50%, and increased accuracy to 90%

Data Analyst

Industrial and Commercial Bank of China, China, Aug 2013 – Dec 2014

- Adjusted telephone banking workflow, and optimized logic chains by analyzing time consumed in each transfer node. Thus, the average time per call decreased from 200s to 120s
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PROJECT

Web Search Rerank with Learning to Rank

Director: Torsten Suel, May 2016 – Jan 2017

- Optimized and implemented ranking model, LambdaMART to improve rerank quality, evaluated by NCDG, ERR, and P
- Retrieved documents from ClueWeb09 databases, built index, and ranked queries results by tf-idf with indri query language
- Obtained important features, such as query likelihood, by NLP methods

Explore Urban Interactions with Public Transportation

Director: Juliana Freire, Feb 2016 – May 2016

- Cleaned, and joined multiple datasets including cab, citibike, Uber, weather, and income from 2013 to 2015 in Hadoop on AWS
 - Explored relationships between the factors like weather change, and usage of cabs by descriptive statistics, and tuned predictive SVM model
 - Debugged python program by monitoring errors and logs in AWS
 - Visualized the relationships and predictions in D3.js
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