

# GUANGBO YU

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## 🎓 EDUCATION

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**University of Southern California (USC)**, Los Angeles, USC 2015 – 2017

*Master student* in Computer Science

**University of Electronic Science and Technology of China**, Chengdu, China 2011 – 2015

*B.S.* in Software Engineering

## 👥 PROJECTS

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**Byte Cup Machine Learning Competition.** Aug. 2016 — Dec. 2016

An international Machine Learning Competition of match community raised questions with domain experts held by IEEE-China and Toutiao.

- Preprocessed data and generated features, implemented and applied one-hot encoding on 100 GB data using Python in Google Cloud Linux Environment.
- Explored algorithms and implemented FM to optimize the accuracy. (Linear Regression, SVM, Keras Neural Network, XGBoost, Item-item Collaborative Filtering)

**Tap News, Real-Time News Scraping and Recommendation System** Apr. 2018 – May. 2018

*MongoDB, Redis, RabbitMQ, TF-IDF*

Implemented a data pipeline which monitors, scrapes and dedupes latest news.

- Built a single-page web application for users to browse news. (React, Node.js, RPC, SOA, JWT)
- Implemented a click event log processor which collects users' click logs, then updates a news preference model for each user. (NLP)
- Designed and built an offline training pipeline for news topic modeling. (Tensorflow, DNN, NLP)
- Deployed an online classifying service for news topic modeling using the trained model.

**Movie Recommender System** Aug. 2017 – Sep. 2017

Built a recommender system to recommend movies based on an adapted Netflix user dataset.(JAVA)

- Computed top 5 recommendations for each user.(item collaborative filtering)
- Processed 1GB data by Hadoop MapReduce jobs in the environment set up by Docker.

## 🎓 EDUCATION

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**Luzhou Hospital.** Jan. 2015 — May. 2015

*Java Software Engineer (Intern)*

Responsible for developing backend API of an E-commerce System.

- Implemented QR code payment module. (Alipay SDK)
- Designed and implemented database schema for persistence and implemented Vo, Dao, Pojo, Mapper. (MySQL, MyBatis)
- Deployed and configured Nginx, Tomcat, Ftp Server and Iptables. (Alibaba Cloud)

## ⚙️ SKILLS

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- Programming Languages: Python, Java, Javascript, C, Scala.
- Data Machine Learning: Hadoop, Spark, Data Mining, Supervised Machine Learning.

## ♡ HONORS AND AWARDS

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*People's Scholarship*

2014