

# 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*

- Computed top 5 recommendations for each user. (**Item Collaborative Filtering, JAVA**)
- Processed 1GB data by Hadoop MapReduce jobs in the environment set up by **Docker**.

## 🔧 EXPERIENCE

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**Luzhou Hospital.** Jan. 2015 – May. 2015

*Java Software Engineer (Intern)*

Responsible for developing backend API of an E-commerce System via **SSM** framework.

- 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.
- Web Development: HTML, CSS, React, Node.js, Express, Spring, Django.