

SHUO XU

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EDUCATION

University of Southern California

August 2016 – May 2018 (expected)

M.S. in Computer Science
GPA: 4.0/4.0

Hefei University of Technology (HFUT)

August 2012 – July 2016

B.S. in Control Technology and Instrument (EE)
GPA: 3.85/4.0, Rank: 1/131

SKILLS

- Programming Languages: Java, C++, HTML/CSS, JavaScript, PHP, Ruby, Swift, SQL
- Technologies: Unix/Linux, Hadoop, Docker, Rails, AngularJS, Bootstrap, AWS, Git

PROJECTS

Full Stack Web Development

November 2016 – Present

Individual Project

USC

- This microblog website is constructed by **Ruby on Rails** frameworks, using Bootstrap, REST Architecture, SQLite and PostgreSQL.
- Implement the social layer that allows users to follow other users and **display a status feed** of the followed users' microblogs on each user's Home Page using Ajax.
- Develop a full Rails login and authentication system, allowing users to sign up, customize their profiles and reset passwords.

Movie Recommendation System

October 2016 – Present

Individual Project

USC

- The system recommends the user with movies **based on their previous preference (ratings)**.
- Use **Hadoop** and Collaborative Filtering Algorithm to calculate the rating matrix and similarity matrix, which are eventually combined to generate the recommend list.
- Implement matrix multiplication in **MapReduce** with data size of 1 GB, provided by Netflix Prize.

Search Autocomplete

July 2016 – October 2016

Team Leader

USC

- The idea came from a programming project named Random Text Generator using **Java**.
- Constructed the N-Gram Library using Wiki-like data and Language Model based on probability.
- Retrieved data and implemented Search Autocomplete using **JQuery**, **PHP** and **Ajax**.

Feature Extraction and Video Tracking

October 2015 – June 2016

Research Project for Thesis

HFUT

- Based on **OpenCV** and **MATLAB**.
- Investigated Camshift Algorithm and Kalman Filter to capture the object quickly and accurately.
- Combined the algorithms effectively, making the tracking process nearly **twice as fast as before**.

HONORS & AWARDS

- National Scholarship of China (**top 1%**, nationwide), 2014
- First-class Annual Scholarship of the University (**top 3%**), 2013, 2014 and 2015