

RANRAN CAO

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PROJECTS

Movie Recommender System

Oct.2017-Nov.2017

- Developed a system to recommend movies to users using Netflix dataset and the **Hadoop** framework.
- Calculated movie rating matrix from Netflix dataset using collaborative filtering algorithm based on goods.
- Implemented **MapReduce** Java code for co-occurrence matrix generation and multiplication of co-occurrence matrix and movie rating matrix to obtain recommendation list.

Event-Reporter: a LBS based Android App project

Aug.2017-Oct.2017

- Developed an **Android** App for users to post events and search nearby events based on key words tags.
- Integrated **Google Map API** to display the nearby hot events and navigate to the events.
- Used Google **Firebase** to store and manage UGC including title, images, description, comments and geolocation.
- Used in-app advertising (Google **AdMob**) to show Google advertisers and keep engaged.

Neighborhood Map

Oco.2016-Dec.2016

- Built a single page web application with **Knockout.js**.
- Implemented the nearby search and relevant information fetching using Google Maps API and Yelp API.
- Designed and built a responsive **UI** using **HTML, CSS, jQuery** and **Bootstrap**.

WORK EXPERIENCE

Software Engineer Intern

Institute of Automation, Chinese Academy of Sciences

Log Analysis: A User Behavior Analysis Project

July.2016-Sep.2016

- Used ELK to target mobile users on the basis of demographics, location, behavior, device and service provider and etc.
- Built an **ElasticSearch** project to store user session data and process raw information before further analysis.
- Used MapReduce in **MongoDB** to process logs exported from web servers to find peak periods.

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Sep.2015 – Jun.2017

Master of Science, Electrical Engineering

GPA: 3.3/4.0

Coursework: Artificial Intelligence, Data Structures and algorithms, Wireless Network & Mobile Computing.

BEIJING UNION UNIVERSITY

Sep.2011 – Jun.2015

*Bachelor of Science, Automation (concentration in **Internet of Things**)*

GPA: 3.57/4.0

Coursework: Data Structures, Java, C, Database Design & Development, Android App Development.

TECHNICAL SKILLS

Language: Java; C++; Python; JavaScript; Node.js; HTML5; CSS3; SQL; Matlab.

Tools & Infrastructure: IntelliJ; Android Studio; Docker; Hadoop; MapReduce; AWS; Angular; Linux; logs; MySQL; MongoDB; SQLite; Hbase.