

XIN HUANG

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EDUCATION

University of Southern California	Jan. 2018 - Dec. 2019(<i>expected</i>)
Master of Science in Computer Science	GPA: 3.9/4.0
Telecom Paristech	Sept. 2016 - Feb. 2017
Exchange Student, Majoring in Networking and Data Science	GPA: 3.8/4.0
Shanghai Jiao Tong University	Sept. 2012 - Aug. 2016
Bachelor of Science in Information Engineering	GPA: 3.6/4.0

SKILLS

Programming Languages	Java, Python, C/C++, HTML/CSS/JavaScript, PHP, SQL, Solidity
Tools & FrameWork	Hadoop, Spark, Angular, Tensorflow, Spring Boot, Git, AWS, Node.js, Django

EXPERIENCE

Software Engineer Intern at Hulu Jun. 2019 - Aug. 2019
Content Platform Team

- Built a new service with **Spring Boot**, **Apache Kafka**, **Redis**, **ElasticSearch** for monitoring data ingestion and redundant test data cleaning in one of the critical services owned by Content Platform Team.
- Set up **terraform** and **Jenkins pipeline** for the service deployment in **AWS**.
- Service satisfied the production readiness standard and was launched into production environment.

Research Programmer at Information Science Institute, USC Jun. 2018 - Present
Entity Resolution and Knowledge Graph Construction

- Designed and built up a situation clustering pipeline for LORELEI from scratch, including preprocessing text, extracting string features, implementing a dynamic clustering algorithm for mining events from twitter dataset. Implemented and **dockerize** the pipeline in A streaming manner using **Apache Kafka**.
- Designed, implemented and modularized entity resolution pipeline for GAIA, including matching extracted instances from picture and text and designing high-performance entity resolution framework based on min hashing. It executed 4 times faster than the baseline.

Research Assistant at Intelligent IoT Center, Shanghai Jiao Tong University Jun. 2014 - Nov. 2017
Information Retrieval for Academic Data (Link: <https://Acemap.info>)

- Proposed a scalable generative model (able to process datasets containing over millions of papers) that is compatible with all topic modeling models and effectively generated the importance of papers in topic spaces.
- Achieved an improvement of 50% in the recall, precision over other topic-based citation prediction methods.
- Implemented from scratch and released the source code of the proposed algorithm with C++, optimized the algorithm to linear time complexity and implement backtracking line search in learning rate selection.

SELECTED PROJECTS

Weenix Operating System miniature of Linux on C

- Implemented kernel processes & thread, virtual file system, virtual memory of an operating system including but not limited to mutex lock, context switch and wait, path resolution, address spaces. Passed over 1000 tests on both kernel-level and user-level thread.

House Searching System(Light version of Airbnb) Java, MySQL, Spring Boot, JQuery, Elasticsearch

- Developed a house searching system with **Spring Boot**. It is consisted of a backend management system, a house retrieval system combining search engine and Baidu map and a leasing management system.
- Constructed the search engine with **ElasticSearch** and **Kafka**, implemented and tested RESTful API with backend secure data feeds with **MySQL**, the front-end with **Bootstrap** and **jQuery**.

Ticket Searching System Angular, Nodejs, Android

- Developed a full stack ticket search system with backend written in **Nodejs**. Refactorized and combined the REST API from more than six API providers.
- Implemented a website with **Angular** and **Android** Application for ticket search. Functionality include search, auto-complete, artist/venue/event visualization, favorites.