

Yuan Yao

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Education

University of California, Riverside <i>Master of Science, Computer Engineering. Graduated on June, 2017.</i>	2015–2017
University of California, Riverside <i>Graduate Preparation Program in Electrical Engineering.</i>	2014–2015
Huazhong University of Science and Technology <i>Bachelor of Science, Electrical Engineering.</i>	2011–2014

Experience

Software Engineer Intern	ESRI China <i>July–August 2016</i>
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- Collect data from websites with *Scrapy*, a web crawling framework written in Python.
- Use ArcGIS 10.3 to create visual cartography. The demo is a 3D visualization map built in ArcGIS JavaScript API and *Django* in which a user can see all the information including heat map of the attractions around the world that were crawled from website.

Projects

YYNEXT	Personal Website <i>July–August 2017</i>
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This is my personal website built with React.js. I used some parallax layout and smooth scroll features to interact with users. The site is running on an instance of AWS EC2. I served all my web apps in several subdomains under my personal domain using Nginx reverse proxy.

BLOG	Blog Website <i>July–August 2017</i>
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This is my dynamic blog website (*updating*). The backend is a RESTful API server built with Node, Express and MongoDB that sends data in JSON. The front-end is a React and Redux client that makes Ajax requests to server and renders the UI for users. The website uses Json Web Tokens as the authenticate system to avoid using sessions.

YelpCamp	Yelp Camp <i>July–August 2017</i>
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This is a place to share campgrounds all around the world. This website is built with Node, Express and MongoDB in REST routes. A registered user can post a new campground and leave comments on all existing campgrounds. The website uses sessions to store login user information.

Master's Project	University of California, Riverside <i>March–June 2017</i>
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Real Estate Analysis: Analyze what people in the real estate world are talking about every day. To accomplish this, I crawled more than five million posts from two real estate forums and saved them to MySQL database. Then I analyzed the posts from the two forums using TF-IDF, PMI Score, Naive Bayes Classifier and other natural language processing techniques to find popular key phrases (both unigrams and bigrams) and sentiments for every city and state in every month. I used some Python natural language processing tools such as *NLTK* and *scikit-learn* in this project.

Advisor: Prof. Vagelis Hristidis.

Messenger Project	University of California, Riverside <i>January–March 2016</i>
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A chat application built with Java and PostgreSQL working in Bash.

Rshell Project	University of California, Riverside <i>March–May 2015</i>
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A bash like command shell written in C++ working in Linux.

Computer Skills

Languages: Python, JavaScript, C/C++, Java, HTML5, CSS3, Swift

Front-End: React, Redux, jQuery, Bootstrap, Semantic UI

Back-End: Node, Express, MongoDB, MySQL, RESTful API, PostgreSQL, Django, Nginx, Tomcat

Development: Git, AWS, Scrapy, Docker, Linux