Yuan Yao

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Education

University of California, Riverside   **2015–2017**
Master of Science, Computer Engineering. Graduated on June, 2017.

University of California, Riverside   **2014–2015**
Graduate Preparation Program in Electrical Engineering.

Huazhong University of Science and Technology   **2011–2014**
Bachelor of Science, Electrical Engineering.

Experience

Software Engineer Intern   **ESRI China**
July–August 2016

○ 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**
July–August 2017

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 serveral subdomains under my personal domain using Nginx reverse proxy.

BLOG   **Blog Website**
July–August 2017

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**
July–August 2017

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**
March–June 2017

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**
January–March 2016

A chat application built with Java and PostgreSQL working in Bash.

Rshell Project   **University of California, Riverside**
March–May 2015

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