

Yuan Yao

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Education

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

Technical 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

Work Experience

Software Engineer Intern <i>ESRI China</i>	July 2016–August 2016
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- Collected data from websites using *Scrapy*, a web crawling framework written in Python.
- Used *ArcGIS 10.3* to create visual cartography.
- Created a 3D visualization map using *ArcGIS JavaScript API* and *Django*. Users can see all the information including heat map of the attractions around the world that were crawled from a traveling website.

Projects Experience

BLOG <i>Blog Website</i>	July 2017–August 2017
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- Built a full stack dynamic blog website (*updating*).
- Back-End: A RESTful API server built with *Node*, *Express* and *MongoDB* that sends blogs data based on the request url in JSON format.
- Front-End: A *React* client in MVC pattern. The client uses *Redux* to store all the states of application and makes AJAX requests to server to fetch/add/edit/delete posts.
- Used JSON Web Tokens as the authenticate system to let users log in to post.
- Served all the web apps in several sub-domains under *yynext.com* using *Nginx* reverse proxy.

YelpCamp <i>YelpCamp Website</i>	July 2017–August 2017
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- Built a campgrounds sharing website using *Node*, *Express* and *MongoDB* in REST routes.
- Registered users can add new campgrounds and leave comments on all existing campgrounds by sending different requests to the corresponding routes.
- Used sessions to store the login user information.

Real Estate Forums Crawling and Analysis System <i>University of California, Riverside</i>	March 2017–June 2017
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- Analyzed what people in the real estate world are talking about every day.
- Crawled more than five million posts from two real estate forums and saved them to MySQL database.
- 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.
- Used some Python natural language processing tools such as *NLTK* and *scikit-learn* in the project.

Messenger Project <i>University of California, Riverside</i>	January 2017–March 2016
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- Created a chat application using Java.
- Used *java.sql* package to manage the connection with PostgreSQL database.