

Zhuocheng Shang

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EDUCATION

University of California, Riverside

Expected April 2021

M.S. in Computer Science, GPA: 3.67 /4.0

Lindenwood University, St.Charles, Missouri

June 2015 - May 2019

B.S. in Computer Science, GPA: 3.8 /4.0

TECHNICAL SKILLS

Programing Language: Java, Python, PHP, Spark, MySQL

Technologies: Java Spring Frameworks, Maven projects, Spark RDD, React.js, Vue.js, machine learning methods

Languages: Full proficiency in English, Chinese (Mandarin)

EXPERIENCE

XiaoQiao Technology Company, HangZhou, China

May 2019 - Aug 2019

Full-Stack Development Intern

- Developed a web-application that allows tracking vehicle inspection records or schedules vehicle inspection.
- Operated PHP backend functions and **SQL** queries to program **backend APIs**, including handling administration login page, updating vehicles data and modifying Database;
- Assembled **Vue.js** and ElementUI framework to program front-end, including connecting from-end modules with API interfaces;

ChengLian Technology Company, HangZhou, China

May 2018- Aug 2018

Java Web App Backend Intern

- Developed a web-application which applied for e-commerce allowing ordering, trading and managing membership.
- Remodeled and reconstructed the database design of the App;
- Designed **Java APIs** using **Java MVC Spring framework**, including updating, inserting, deleting and searching orders with **MySQL** database;
- Tested the API interfaces through **postman** and also recorded corresponding API documents for the project.

PROJECTS

Riverside County Pesticides Web Application, UCR and Department of Agriculture

Jan 2020 - June 2020

- Engineered a Web Application with **MySQL database**, JavaScript, HTML and **Java back end**; This application allows agricultural departments to document pesticides records and faculty information.
- Parsed KML file with Leaflet API and visualized Riverside agriculture field layers on a web map;
- Overhauled **Spring Boot** framework to generate front requests, **REST API** and manage data with MySQL;

2D to 3D Road Network Visualization, UC Riverside

Sep 2019 - Dec 2019

- Applied prototypes of visualization 3D road network on Google Earth Engine with generated KML.
- Combined OpenStreetMap 2D road data and DEM data through **Spark RDD**;
- Applied grid format to original data with GeoTrellis packages;
- Generated unlabeled points with Delaunay Triangulation Algorithm with surrounding points;

Youtube Makeup Video Popularity Analysis, UC Riverside

Sep 2019 - Dec 2019

- Analysed correlation between YouTube video title, description, upload date and top comments with implemented **Machine Learning algorithms**: K-Nearest Neighbors, Decision Tree Classification and CNN.
- **Crawled** YouTube video date with title, description, upload date and top comments with **Python**;
- Cleaned text data evaluated text data with numerical format through **NLTK**, **bag of word** and **Tf-idf Vectorizer**;

Tiger Hack Competition, Columbia, University of Missouri

Oct 2017

- Developed a new version prototype for the Amazon Alexa with Amazon API, **React.js**, and **Firestore**;
- Increased efficiency and accuracy for journalists to take notes and brainstorm with dictating Alexa.