

# ZICHENG SHAN

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## EDUCATION

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### Master of Software Engineering

Expected Dec. 2022

University of California, Irvine (3.9/4.0)

### Bachelor of Engineering

Jun. 2020

Wuhan University of Technology (3.78/4.0)

## SKILLS

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**Languages and Software:** Java, MySQL, Python, MATLAB, Git/GitHub

**Web Development:** HTML/CSS, Tailwind CSS, Material-Ui, JavaScript, React, Node, Express, MongoDB, REST APIs

## EXPERIENCE

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### Data Developer Intern

Apr. 2021 - Aug. 2021

Maimai, Beijing, China

- Built 40+ data boards to help business sides to follow up and make decisions on product operations
- Utilized funnel analysis, retention analysis, group analysis methods to process and analyze the original data
- Completed 60+ data extraction requirements in the company's recruitment and content business lines via SQL

### Laboratory assistant

Oct. 2019 - Apr. 2020

Center for Environmental Research and Technology, UC Riverside | [\[paper\]](#)

- Utilized Vissim to adjust road and vehicle models to test the optimization effect of the algorithm
- Analyzed the energy consumption data collected by simulation through MATLAB and Excel, and further modified the position of the station in the model to find the solution with the lowest energy consumption

## PROJECTS

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### Memories | React, Node, Express, MongoDB, Material-Ui, NPM, Git/GitHub

- Deployed a full-stack social media application that enables registered users to post interesting events
- Realized user registration and login as well as post creation, modification, deletion, likes and other functions
- Built frontend with React.js and Material-Ui, powered by Nodejs
- Built stable backend with Express.js and used MongoDB as the database [\[GitHub\]](#)[\[Website\]](#)

### Image Mall | React, HTML, CSS, JavaScript, NPM, Webpack, API, Git/GitHub

- Built a mock e-commerce site where users can set pictures as favorites and add pictures to cart for purchase
- Fetched data from API and used useEffect, useState, useRef, useContext, and custom hooks [\[GitHub\]](#)[\[Website\]](#)
- Employed a variety of languages such as HTML, CSS, and JavaScript to write & create user-friendly web pages

### Zoggle | React, Tailwind CSS, Google API, NPM, Git/GitHub

- Deployed a Google Search clone with modern UI and light/dark modes [\[GitHub\]](#)[\[Website\]](#)
- Supported searching for the latest results, news, images, and videos
- Retrieved user's input every 0.3 seconds and refreshed the contents if it changed

### Responsive Web | HTML, CSS, Git/GitHub

- Developed a responsive website from scratch with subpages for *homepage*, *about me* and *recent posts*
- Switched to different layouts according to the size of the interface
- Used flexbox, media queries, justify-content, align-items and many other CSS methods [\[GitHub\]](#)[\[Website\]](#)

### Testing of commons-lang Library | JUnit, Blackbox, Whitebox, Mocking, Static Analysis, continuous integration

- Applied multiple testing techniques on the open-source commons-lang Library and increased the code coverage by 10 methods and 75+ lines
- Applied Blackbox testing, white box testing, Mocking and ran TravisCI for continuous integration [\[Report\]](#)