

ZICHENG SHAN

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EDUCATION

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

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

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

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

- Deployed a full stack social media app that allows registered users to post interesting events that happened in their lives
- Realized the functions of registering, creating, modifying, deleting, and liking posts
- 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 [\[Report\]](#)