Kaihua Zhu

Full-Stack Software Engineer

(718) 878-0639   zhukai0803@gmail.com   Portfolio LinkedIn   Github   Bronx, NY

Skills

JavaScript, React, Redux, Canvas.js, HTML5, CSS, SCSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Amazon Web Services S3(AWS), Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, Rspec, Test-Driven Development (TDD), Object-Oriented Programming (OOP), Data Structures and Algorithms, Java, C, Python

Education

App Academy   Oct 2020 - Feb 2021
Immersive software development course with a focus on full-stack web development.
West Virginia University   Aug 2014 - June 2018
Bachelor's in Computer Science

Projects

Tickstarter (JavaScript, React / Redux, Ruby / Rails, HTML, CSS, PostgreSQL, AWS)   Live Site | Github
Tickstarter, a clone of Kickstart, is a platform application that allows individuals to crowdsource funding from other users for ideas.
- Built modals for part of the error handling to enhance user experience.
- Expanded the concept of React Components by combining a parent component with many child components to implement a multi-step form to improve user experience.
- Leveraged AWS for image storage to reduce storage costs and improve software processing speed.

OKCroissant (JavaScript, Mongoose, MongoDB, Express.js, React, Node.js, HTML5, SCSS)   Live Site | Github
OKCroissant is a full-stack(MERN) eCommerce website that dynamically generates bread recommendations for users.
- Devised a custom Axios call to MongoDB backend on the bread resource that optimized retrieval of a user's bread profile matches for a smooth user experience
- Wrote model-level validations to check for data that is passing to the database for creating new instances using the Validator.js library
- Implemented User Auth by employing JSON Webtoken library to send encrypted user details over HTTP request using Axios, and decrypted via the JWT-Decode library on the frontend.

Meme Puzzle Competition (JavaScript, Canvas.js, HTML5, SCSS)   Live Site | Github
Meme Puzzle Competition is a dual-player fun puzzle game built with pure Javascript.
- Employed DOM EventListener to implement the modal for the game introduction to enrich the user experience, and utilized SCSS to display or hide the modal.
- Execute puzzle movement using Canvas and Javascript to clear and re-render pieces between each turn for a more smooth UI
- Designed the logic through pure Math to calculate the next position of every possible move of the puzzle.

Experience

Wang Garden Chinese Restaurant
Manager   June 2018 - Dec 2019
- Guided training for new hires and developed new staff training procedures that increased the speed of training, saving the company thousands of dollars on training new staff.
- Handled all aspects of managing wait staff by translating in Chinese and English for the owner, increasing efficiency of working by 30%.
- Applied time management skills to a five-member workgroup to plan staff break schedules to maintain the restaurant always running with a 100% workforce.