

# Kaihua Zhu

## Full-Stack Software Engineer

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### 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, Behavioral-Driven Development (BDD), Selenium, TestNG, Appium, Junit, Test Automation

### Education

#### App Academy

*Immersive software development course with a focus on full-stack web development*

Oct 2020 - Feb 2021

#### West Virginia University

*Bachelor's in Computer Science*

Aug 2014 - June 2018

### Projects

#### Tickstarter (JavaScript, React / Redux, Ruby / Rails, HTML, CSS, PostgreSQL, AWS)

[Live Site](#) | [Github](#)

*Tickstarter, a clone of Kickstart, is a platform application allowing individuals to crowdsource funding from other users*

- Built useable modals for the error handling to enhance user experience and increase code reusability
- 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 S3 for image storage to improve software processing speed and allow for seamless scalability

#### 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

#### Infostretch | Associate Software Engineer Intern

Oct 2021 - Dec 2021

- Developed applications following Test-Driven Development and SOLID principle, making the application more scalable and improving speed workflow by 30%
- Deployed QMetry automation framework in Selenium Web application test automation that increased the speed of developing test automation for application by 40%
- Applied Appium test automation framework for mobile application development, reducing development time by 30% across different mobile platforms

#### Wang Garden Chinese Restaurant | Manager

June 2018 - Oct 2021

- 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