

Jerry Zhang

Full-stack Web Developer



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github.com/Jerriath

SKILLS

Software Development

MERN

NPM

Javascript

HTML

CSS

Reactjs

Nodejs

Express

MVC

NoSQL

MongoDB

REST API

Asynchronous Code

Sass

Git VC

Github

LANGUAGES

English

Native or Bilingual Proficiency

Chinese

Native or Bilingual Proficiency

Japanese

Professional Working Proficiency

EDUCATION

Bachelor of Science in Physics

University of Florida

08/2017 - 08/2021

Gainesville, FL, USA, GPA: 3.32

PERSONAL PROJECTS

Personal Blog (MERN) (05/2022 - 06/2022)

- Designed a full-stack blog website which leverages an original NodeJS blog api to serve MongoDB data to a React front-end to be rendered.
- Included a blog-client for general users to view the blog, as well as a blog-CMS for admins to send requests to protected routes.
- Included NPM modules like Bcrypt and PassportJS for security and authentication. Also included the use of JWTs for authenticating an authorized user's requests.

Minesweeper Game (C++) (03/2021 - 04/2021)

- Developed a program that plays out the classic game of Minesweeper utilizing C++. Also included the use of an external library (SFML) for creating visual sprites and their corresponding textures.
- Implemented the use of dynamic memory allocation, the use of data structures (e.g. maps, lists, etc., as well as other intermediate level C++ techniques.

Twitter Clone (React) (07/2021 - 08/2021)

- Modeled a functional replica of Twitter via ReactJS for the front-end and Firestore for their backend services. Included all the basic functionalities of Twitter from adding friends to posting pictures.
- Implemented the use of functional React components and hooks for storing state and handling DOM manipulation.
- Created by leveraging Google Firestore for storing posts in their database as well as their security functionalities.

Sorting Visualizer (React) (07/2022 - Present)

- Designed and implemented a React application that animates each step in particular sorting algorithms.
- Included algorithms such as insertion sort, selection sort, bubble sort, merge sort, and quick sort.
- Animations were implemented by utilizing promises.then chains with timeouts to set states sequentially. Each state alter will cause a new render effectively "animating" the sorting algorithm.

WORK EXPERIENCE

Undergraduate Research Assistant

University of Florida

07/2020 - 12/2020

Gainesville, FL, USA

Meisel Research group focused on studying nanoparticle interactions given certain conditions.

Achievements/Tasks

- Processed raw data retrieved from a SQUID magnetometer via OriginLab software. Fitted data for Arrhenius equations to observe relaxation rates of excited nanoparticles.
- Contributed novel ideas and gained thorough understandings through group and individual meetings with research group and principal investigator.
- Performed data measurements through research equipment and prepared samples for data collection.