John Rao
Software Engineer

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Software engineer with experience building frontend UIs, specializing in dynamic react web applications

Languages/ Tech: Typescript, JavaScript, React, Node.js, Git, Vite, Express, Redux, Zustand, Tailwind, Bootstrap, Firebase, MongoDB, Three.js

Projects

Portfolio • www.johnrao.com
- 3D interactive portfolio built with Three.js and Ammo.js for real-time physics detection.
- Built with a mobile first responsive design that incorporates joystick functionality for use on mobile devices.
- Set event listener using a raycaster to determine when the cursor is hovering over clickable objects/links on web app.

Fairbnb • www.getfairbnb.com
- Pseudo property rental application that allows users to book travel rentals using an intuitive location search tool.
- Developed a full-stack application, delivering responsive and optimized user interfaces with React and Tailwind CSS.
- Integrated Firebase Authentication for secure and efficient user authentication, meticulously managing user info in Firestore.
- Enhanced user interaction by integrating the ChatGPT API, allowing users to ask and receive answers to any questions.
- Implemented state management using Zustand to optimize performance and user experience effectively.

Bull vs Bear Trading • www.bullvsbeartrading.com
- Pseudo stock trading application allowing users to buy and sell stocks and analyze metrics.
- Full stack application built with a React frontend and Node.js backend.
- MongoDB as a database to store user/stock info. Collected user info from database in API components.
- Once a user dispatched an action, info is fetched using Axios and updated application state with Redux global data store.

The Odin Project
- Self-paced, open-source coding curriculum, acquiring full-stack programming skills applied in real-world projects.
- Established foundational knowledge in HTML/CSS, and JavaScript, emphasizing functional and object-oriented programming.
- Engaged in hands-on learning through coding challenges focusing on foundational skills like file structure and Git workflow.
- Focus on frontend UI's using React functional components rendering info as necessary during the component life cycle.

Professional Experience

Kallijax • 2018 to 2022

WEB DEVELOPMENT SPECIALIST
- Managed the creation of e-commerce websites with a team of software engineers and company executives.
- Founded a business focusing on all types of digital marketing and web development during an opportune time that created a sustainable income and led to personal growth, *including my path to becoming a full-time software engineer.*

Sam's Club • Vestal, NY • 2016 to 2019

MARKETING OPERATIONS MANAGER
- Effectively managed a team of 70-90 direct reports, training and motivating them to maximize their accomplishments.
- Reached highest sales growth revenue in region at 108% to goal YTD.
- Achieved highest mobile application adoption rate at 7% YTD with fast technology adaptability cutting costs and boosting operational efficiency, *leading to beginning stages of realized personal interest in tech industry.*

Education & Credentials

Bachelor of Science, Financial Economics • President of Enactus, Appointed CEO

BINGHAMTON UNIVERSITY | Binghamton, NY