SARAH CHOW

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Experience

Poseidon

Implemented server-side rendering with Next.js to boost app responsiveness and performance, resulting in improved
search-engine optimization and enhanced user experience.
- Guaranteed consistent performance of interdependent apps by utilising Docker to isolate the app environments in order to
enable future flexibility in scaling processes.
- Simplified the deployment of Docker containers through integration with the Kubernetes platform to leverage automated
scheduling for improved reliability and organised management.
- Streamlined user-interface with Tailwind's composable design approach to build responsive components which enhanced the
presentation of functionalities.
- Utilised Typescript's type safety features to reduce runtime errors and promote code maintainability throughout
development.
- Conducted end-to-end testing with Cypress, ensuring consistent delivery of feature requirements and objectives.

OPEN SOURCE CONTRIBUTIONS

PaperPrompts 2.0 | an iteration of a flash cards app
- Employed PostgreSQL as the primary data store, providing robust data management and fast query performance, resulting
in increased application reliability and data insights.
- Implemented Google OAuth for enhanced security and straightforward authentication process, allowing users to seamlessly
sign up and login with their credentials.
- Improved the performance and speed by refactoring code, implementing caching mechanisms, and optimising database
queries, resulting in a more seamless and responsive user experience.
- Redesigned the user interface of the application to improve its aesthetic appeal and usability, resulting in increased
engagement and positive feedback.
Off My Couch | an event finder web app
- Utilised Vite's responsive hot module reload to dynamically update the interface based on user interactions, ensuring a
comfortable browsing experience on any device.
- Developed RESTful API endpoints using Express to enable seamless communication between the front-end and back-end
components.

- Incorporated Redux to manage application state, offering a centralised data store and code maintainability, leading to higher

developer productivity and scalable application performance.

- Leveraged Sass' nesting feature for simplified structure and improved readability of styling modules to improve site

performance through transpiled and minified CSS.

Comets | a social media web app

- Developed dynamic user interfaces using React, resulting in improved performance and seamless experience, leading to

increased user engagement and satisfaction.

- Implemented a NoSQL database to handle large amounts of unstructured data and provide flexible schema design, ensuring

that the system is scalable and can handle future growth and increased demand.

- Optimised data exchange with Axios' promise-based API, resulting in better application performance, the ability to handle

multiple requests at once, and allowing for the creation of interceptors.

- Employed the Twitter API to display real-time trending topics and hashtags within the social media web app, providing users

with up-to-the-minute information and insights into the latest social media trends.

Groupie | a hyperlink preview and tracking chrome extension

- Designed and developed a Chrome extension using JavaScript, HTML, and CSS to keep track of links clicked, with the ability

to identify and categorise links based on user preferences, resulting in relevant insights and information.

- Integrated jQuery UI widgets and effects to create visually appealing and interactive components such as for drag-and-drop

functionality and animated transitions.

- Integrated source content previews and destination tracking using scraped data to provide a secure and enhanced browsing

experience, allowing users to preview web pages before clicking on links and leveraging scraped data to perform security

checks and analyse potential security risks or malicious content.

Skills

api • approach • c • content management • css • data management • database administration • delivery • fast • features