

Sahaj Dave

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Education

Dhirubhai Ambani Institute of Information and Communication Technology

Masters of Science in Information Technology

Gandhinagar, Gujrat

July 2019 – Aug. 2021

Symbiosis International University

Bachelors in Computer Application

Pune, Maharashtra

July 2016 – April 2019

Experience

React Engineer

TechLadd

Pune, Maharashtra

December 2022 - Present

- Spearheaded the complete **rearchitecture** and **refactoring** of codebase resulting in **40%** decrease in bundle size.
- **Engineering owner** of internal component library built using **Mantine UI** and **TailwindCSS**.
- Mentored and lead team of four engineers by participating in regular pair programming, training sessions and code reviews.
- Implemented config driven development for components, reducing SPA re-renderings by **87.5%**.
- Developed specialized analytics dashboard using **recharts** to visualize carbon emissions data of over **10k records**.

Frontend Developer

Mcfadyen Digital

Bengaluru, Karnataka

April 2022 - November 2022

- Created memoized caching solution using **lodash** to significantly improve user experience by reducing average loading time.
- Developed **progressive web app** storefront components in React to facilitate wishlist items and cart checkout.
- Implemented **contentful** data driven components allowing consistent information to be re-synced in storefront and CMS.
- Addressed regular production bugs and improvements in existing frontend services using **Jira** to prioritize requirements.
- Utilized **ARIA** specification to define **accessible** JS controlled elements in place of native semantic HTML elements.

ReactJS Developer

Freelancer

Pune, Maharashtra

Aug. 2021 - Mar. 2022

- Collaborated with developers of a B2B shipping startup to work on the pilot E-Commerce project.
- Implemented **styled components** and **SASS** to develop optimised reusable templates in React.
- Resolved props complexities by implementing **Redux Toolkit** as an alternative to existing state management.
- Reduced Database hits by developing **custom hooks** to cache fetched data, improving website response time.

Projects

Cine Nights

React, Express, MongoDB, Socket.io



- Developed a full-stack web application to stream movies in sync with **Express** serving **REST API** React as the frontend
- Designed a peer-to-peer chat service by implementing **Socket.io** using **React Context API**
- Built modular reusable components with React and styled components to maximize the extensibility of code
- Created a service allowing consistent video information to be re-synced in response to delays, reducing data sync to **200ms**

Backend API for E-Stores

Express, MongoDB, BcryptJS



- Created fully specified REST API backend with **express** and **MongoDB** having functionality similar to Amazon
- Developed an authentication service using **NodeMailer** and **JSON Web Tokens**, allowing API to verify emails
- Designed controllers to fetch data by using asynchronous methods to improve performance by **20%**

Linux Minimal System Monitor

c++, ncurses



- Developed a TTY based system monitor using **C++** to extract system and kernel information on **Arch Linux**
- Implemented **Ncurses API** as the UI wrapper on **alacritty** OpenGL terminal emulator to optimise refresh rate
- Created a custom **makefile** script for compilation with an optional debug mode

Coders Catalogue

JavaScript, Bootstrap, MomentJS



- Developed a web extension using **React** and **Bootstrap** to fetch competitive contests data from API
- Reduced loading time to **30%** by implementing dynamic updates using caching techniques in local-storage
- Created a helper utility using **MomentJS** to localize UTC time format

Skills

Languages

TypeScript, HTML5, CSS3, JavaScript, C++, Python, Shell, GraphQL

Frameworks and Libraries

React JS, Axios, TailWindCSS, Redux Toolkit, Socket.io, Ant Design, Styled Components, Bootstrap, Mantine UI

Tools and Technologies

Git, Postman, Vite, NPM, Yarn, Pnpm, Sass, PostCSS, Craco, Docker, ESLint, Heroku, Netlify, Linux, NX Monorepo