Sahaj Dave

FRONT END ENGINEER

📞 +91 (773) 781-1426 | ✉ sahajdavework@pm.me | 🌐 sahajdave.me | ⌂ davesahaj | in sahajdave

Education

Dhirubhai Ambani Institute of Information and Communication Technology Gandhinagar, Gujrat
Masters of Science in Information Technology *July 2019 – Aug. 2021*

Symbiosis International University Pune, Maharashtra
Bachelors in Computer Application *July 2016 – April 2019*

Experience

Frontend Developer Bengaluru, Karnataka
Mcfadyen Digital *April 2022 - Present*

- 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 faciliate 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 Pune, Maharashtra
Freelancer *Sept. 2021 - Feb. 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.

Software Engineer Intern Gandhinagar, Gujrat
DA-IICT *Jan. 2021 - June 2021*

- Worked with a team of 4 to develop a research automation tool using **django** and **React** for scholars.
- Designed responsive data-driven components to effectively manage research information using web interface.
- Developed a learning algorithm using **NLTK** to tokenize information for statistical analysis.

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, Node.js, Socket.io, Ant Design, Styled Components, Bootstrap
Tools and Technologies	Git, Postman, Vite, NPM, Yarn, Pnpn, Sass, PostCSS, Craco, Docker, ESLint, Heroku, Netlify, Linux