Sahaj Dave

FILL STACK ENGINEER

\$\bullet\$ +91 (773) 781-1426 | Sahajdavework@pm.me | Sahajdave.me | \$\bullet\$ 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 _____

ReactJS Developer Pune, Maharashtra

Freelancer Sept. 2021 - Present

- 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

Jan. 2021 - June 2021

DA-IICT

- 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.

Research Assistant Gandhinagar, Gujrat

DA-IICT May 2020 - Aug. 2020

- Collaborated with PhD researchers to model 21,000+ WiFi records data using NumPy and Pandas.
- Developed a web application using Flask and Bootstrap to model student movement patterns on campus.
- Utilized Plotly.js to graphically visualise analytical information on the web page.
- Integrated GitHub commits with **heroku** to automate deployment of the production branch.

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 JavaScript and Bootstrap to fetch competitive contests data from API
- Reduced loading time to 30% by implementing dynamic update functionality using caching techniques
- Created a helper utility using JavaScript Internationalization API to localize UTC time format

Skills

Languages C++, JavaScript, HTML5, CSS3, MongoDB, PostgreSQL, Shell

Frameworks and Libraries React, Axios, Redux Toolkit, Node.js, Socket.io, Express, Styled Components, SASS, Mongoose, Bootstrap

Tools and Technologies Git, Postman, VS Code, NPM, Heroku, Linux