Sahaj Dave

FULL STACK ENGINEER

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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
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.

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