

Sourav R S

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Experience

Equipo Business Solutions Pvt. Ltd

Thiruvananthapuram, Kerala

FRONT END ENGINEER

Apr 2023 – May 2024

- Developed and maintained high-performance chat applications, ensuring real-time communication and a seamless user experience for Aspyre & Tody.
- Utilized Core CSS techniques to create responsive, visually appealing, and consistent user interfaces, enhancing overall user experience.
- Leveraged ReactJS and NextJS to build responsive, server-side rendered chat applications, enhancing both SEO and initial load times by 40% through server-side rendering and optimized bundle sizes.
- Ensured low-latency real-time communication with WebSockets, supporting over 10,000 concurrent users without performance degradation.
- Implemented Redux Toolkit and Context API for efficient state management, ensuring a consistent and predictable state across the applications.
- Designed a scalable state management solution using Redux Toolkit and Context API, facilitating easy feature expansion and maintenance.
- Used RTK Query for data fetching, caching, and synchronization with the server, resulting in reduced API call redundancies and improved data handling performance, Reduced server costs by optimizing API calls and minimizing unnecessary data transfers.

Coddle Technologies

Calicut, Kerala

FULL STACK DEVELOPER

Oct 2021 – Apr 2023

- Designed and developed Xler8, a fully customizable dashboard library for a healthcare management system, akin to a React layout grid. The dashboard functions as an admin panel, providing critical metrics such as patient numbers, therapist counts, and more.
- Designed a modular and scalable architecture, facilitating easy addition of new features and customization options, Implemented real-time updates for critical metrics using WebSockets, ensuring administrators have up-to-date information.
- Developed and integrated RESTful APIs using NodeJS, ExpressJS, and MySQL to fetch and manage healthcare data efficiently.
- Built dynamic and customizable dashboard components from scratch using ReactJS and TypeScript, allowing administrators to easily configure and visualize data.
- Applied Core CSS techniques to ensure responsive design, maintaining a consistent and visually appealing user interface across different devices.
- Developed and integrated RESTful APIs using NodeJS and MySQL to fetch and manage healthcare data efficiently & utilized NextJS for server-side rendering, improving SEO and initial load times of the dashboard.
- Achieved a 35% reduction in initial load times through optimized rendering and efficient data fetching strategies.
- Improved database query performance by 25% through optimized SQL queries and efficient indexing.

Embright Infotech

Thiruvananthapuram, Kerala

SOFTWARE DEVELOPER ML

Jun 2020 – Oct 2021

- Designed and trained machine learning models using Python and PyTorch to develop assistive tools tailored for autistic children.
- Performed extensive data preprocessing, analysis, and feature engineering to prepare datasets for training robust ML models.
- Integrated ML models with the React-based application, ensuring seamless interaction between the machine learning backend and user-facing features.
- Developed innovative assistive technology tools, including real-time speech recognition and emotion detection, significantly improving communication capabilities for autistic children.
- Achieved a high accuracy rate in emotion detection models, enhancing the application's ability to understand and respond to the emotional states of children.

Skills

Frontend: ReactJS, NextJS, Javascript, Typescript, HTML, CSS, Redux,

Backend: NodeJS, ExpressJS

Databases: MySQL, MongoDB

Tools & Technologies: WebSockets, RESTful APIs, RTK Query, React Query, NeoVim, Pytorch, Selenium

Education

Mar Ivanios College

Nalanchira, Thiruvananthapuram,

Kerala

B.VOC IN COMPUTER SCIENCE

2017 – 2020

Projects

LEARNNEXTJS

DEVELOPED AN EDUCATIONAL BLOG WEBSITE AIMED AT EMPOWERING NEW DEVELOPERS IN THE NEXT.JS/REACT.JS ECOSYSTEM. LEVERAGED ADVANCED FRONTEND TECHNIQUES SUCH AS REDUX, SERVER SIDE RENDERING, AND INCREMENTAL STATIC GENERATION TO CREATE A DYNAMIC LEARNING PLATFORM.

*Typescript, NextJS, ReactJS,
MongoDB, Prisma, MDX*

<https://learnnext-blog.vercel.app/>

ALPHR

A PYTORCH IMPLEMENTATION OF A DARKNET TRAINED YOLOV4-TINY MODEL THAT CAN DETECT NUMBER PLATES AND HELMETS IF A NUMBER PLATE IS DETECTED IT IS PASSED THROUGH AN OCR TO RECOGNIZE THE NUMBER

*OpenCV, OCR, Pytorch, yolov4,
python*

<https://github.com/souravrs999/License-Plate-Recognition>

FaucetCryptoBot

A BOT FOR FAUCETCRYPTO A CRYPTOCURRENCY FAUCET. THE BOT CAN CURRENTLY CLAIM PTC ADS, MAIN REWARD AND ALL THE SHORTLINKS EXCEPT EXE.IO AND FC.LC.

python, selenium

<https://github.com/souravrs999/FaucetCryptoBot>

Gaze Unity

A WEBCAM IMPLEMENTATION OF EYE TRACKING FOR UNITY. EYE TRACKING IS DONE EXTERNALLY WITH THE HELP OF PYTHON AND COORDINATES ALONG WITH EYE BLINK STATE IS STREAMED TO UNITY.

unity, python, C#

<https://github.com/souravrs999/Gaze-Unity>

Awards

Google Cloud Platform, Recognized for outstanding proficiency in Google Cloud Platform tools and services

Google