

Sanjay Mahto

Technical Lead - Front-end

Passionate about building **fast, accessible, and user-friendly** web apps with **React, Next.js, and modern JavaScript**. Skilled in **UI/UX, WebSockets, WebRTC, and D3.js**, with a focus on **clean code and performance**.

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WORK EXPERIENCE

Technical Lead Nference

04/2024 - Present

Bengaluru, India

Nference extracts insights from medical records to advance personalized healthcare through data-driven solutions

Tasks

- Led a team of 5 engineers, providing technical guidance and mentorship, ensuring project success.
- Established and enforced coding standards through rigorous code reviews, ensuring code quality and maintainability.
- Played a crucial role in Engineering Hiring: Established Frontend Engineering hiring process.

Senior Software Engineer Nference

06/2021 - 03/2024

Bengaluru, India

Nference extracts insights from medical records to advance personalized healthcare through data-driven solutions

Achievements

- Designed and implemented an advanced DICOM viewer library with CornerstoneJS, optimizing 3D imaging and segmentation capabilities, resulting in a 10% reduction in rendering time.
- Contributed to AI-Studio repo and Annotator Library, enhancing data labeling, image annotation, and Dicom image viewing capabilities with features like word clouds and overlap tagging, improving annotation efficiency by 20%.
- Achieved remarkable time savings by integrating the S.A.M (Segment Anything Model) into the Image Segmentation task, reducing annotation time by 50-60%.

Software Engineer Playment

05/2019 - 05/2021

Bengaluru, India

Playment is a data labeling platform that uses microwork to create high-quality datasets for machine learning model training

Achievements

- Developed core features for Jarvis, Player App, and the company website, including media handling and project dashboards, supporting a 30% increase in platform usage.
- Spearheaded innovations like Lidar Segmentation and AI assistance, optimizing point cloud coloration and adding grid support, leading to a 15% improvement in data accuracy.
- Enhanced code quality by implementing functional testing with Mocha and headless Chrome, achieving 90% test coverage.
- Developed source code instrumentation for automation test cases, enabling detailed code coverage analysis.

Software Engineer Fusioncharts

03/2018 - 04/2019

Bengaluru, India

FusionCharts is a data visualization company specializing in creating interactive and visually appealing data charts and graphs for businesses.

Achievements

- Elevated the product website using React JS, Redux-thunk, Server Side Rendering, and Express JS to showcase Muze, resulting in a 25% increase in website traffic.
- Contributed to the development of MuzeJS library (v1), resolving critical gradient scaling issues to enhance data visualization accuracy and performance
- Innovated with Moriarity, an Autotest runner leveraging Puppeteer and OpenCV for precise chart differences assessment in new releases, reducing testing time by 20%.

SKILLS

TypeScript

Javascript (ES6+)

HTML 5

CSS 3

Next JS

React

Redux

Vite

Web Components

GraphQL

Data Structures & Algorithms

GIT

System Design

Context API

D3.js

Accessibility (A11y)

Styled-components

Three JS

Node JS

GitHub Actions

Restful APIs

WebRTC

Cypress

Webpack

Jest

Babel

Responsive Design

PERSONAL PROJECTS

Real-time video communication [↗](#)

- Create Group Video Chat with WebRTC Mesh Architecture, React and Websockets

Hierarchical data representation [↗](#)

- Nested JSON Data to DAG(Directed Acyclic Graph) converter

File system explorer [↗](#)

- Developed file system explorer (like OS) with searching, sorting, renaming, creation and deletion of files and directories functionalities

EDUCATION

**Birsa Institute of Technology,
Dhanbad**

B.Tech in Information Technology

06/2013 - 06/2017

CGPA: 7.82/10

Courses

- Relevant Coursework: Data Structures and Algorithms

ACHIEVEMENTS

Got 80th Rank Globally in TCS Codevita 2016 (season V)

Branch Topper in 3rd, 6th and 8th Semester in College

Qualified AIEEE 2013 with AIR 35000 and JCECE Examination with AIR 1030