

# Kuladeep Sai Marrapu

[LINKEDIN](#) | [Kuldeep.marrapu@gmail.com](mailto:Kuldeep.marrapu@gmail.com) | [Github](#) | +91-9390404104 , India

## Summary

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Skilled in developing quality products and solving complex problems, thriving on learning new technologies, and staying updated with industry trends. Proficient in the Vue.js and Flutter frameworks, excelling at designing user-friendly interfaces and ensuring seamless functionality. Committed to delivering excellence and eager to leverage expertise in creating innovative solutions and driving business success.

## Professional Experience

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**Cyrrup Solutions Pvt Ltd, Hyderabad, India**

Feb 2021 - Feb 2024

**Front-End Engineer – Tech Lead**

As a **frontend engineer** and esteemed tech lead, spearhead the deployment of cutting-edge fleet management and diesel eye solutions. Leveraging the **Vue.js framework** using **JavaScript**, meticulously oversee the entire code base, ensuring optimal performance and seamless functionality. Furthermore, proficiency in harnessing advanced cloud technologies for scalable and efficient deployment is showcased through the adept deployment of these solutions on the **Google Cloud Platform (GCP)**.

**TCCentral INC, Los Altos, CA**

Sep 2024 - Feb 2025

**Data Annotator & UI/UX developer**

As a UI/UX developer & annotator, I led projects that bridged the gap between design and data-driven decision-making, creating intuitive and user-friendly interfaces while optimizing and implementing segmentation strategies for ML-Models.

**HTC Global Services, India**

Mar 2025 - Present

**Frontend Engineer,**

As a Frontend developer I've worked on a micro-frontend architecture using Vue.js and JavaScript with Module Federation. Gained hands-on experience in building and integrating independently deployed micro-applications, managing multiple repositories, and ensuring seamless communication between federated modules. This involved handling shared components, optimizing build configurations, and maintaining consistent UI/UX across distributed frontend modules.

## Projects

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### Vehicle Theft Detection and Trip Report Analysis

- **Vue2:** Used Vue2 to build the initial version of the real-time web dashboard for vehicle tracking and trip analysis. Leveraged Vue2's Options API to structure components, and used Vuex for managing application state efficiently across multiple components. Integrated Google Maps API to display vehicle locations and used ApexCharts for dynamic charting of trip reports and fuel theft data.
- **Vue3:** Migrated the project to **Vue3** to take advantage of the new Composition API, improving code modularity and reusability. Vue3 allowed for better performance optimizations, especially for managing larger datasets in real-time tracking and visualizations. Utilized Vue Router for implementing more complex navigation, including dynamic and nested routes.
- Integrated **Vuetify** to build responsive, material design-based interfaces for real-time applications. Vuetify's grid system and pre-built components were used to create interactive dashboards, ensuring that real-time data, such as vehicle tracking and defect detection, was displayed clearly and efficiently. The combination of Vuetify's UI components and **real-time updates** from APIs enabled smooth data visualization, particularly in scenarios where tables, charts, and modals needed to dynamically reflect changes as new data was received.

### LHB Coach Defect Detection System (South Central Railways)

- **Vue2:** Built the initial interface using **Vue2**, where components were structured using the Options API. Vuex was used for centralized state management to display real-time defect data from APIs. Vue Router was integrated to navigate between defect listings and detailed views.
- **Vue3:** Upgraded the project to **Vue3**, refactoring the code to use the **Composition API** for better maintainability and enhanced performance. The migration made it easier to manage component logic and handle complex state logic, particularly for handling large amounts of real-time defect data. The enhanced reactivity of Vue3 improved the user experience in the real-time update of dashboard tables and graphs.
- Additionally, a modal window to show the defective part image in a table row and the option to download a particular part image.
- Developed and deployed custom graphical components.

## Key Responsibilities

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- Achieved 80% deployment of cutting-edge fleet management and diesel eye solutions.
- Worked on Vue2 and Vue3 to build web applications, leveraging key features like the composition API in vue3 for better reusability. Implemented third-party integrations.
- Designed intuitive, user-friendly interfaces to enhance the user experience and streamline operations.
- **Vuex** is used for state management to manage complex application state using Vuex, ensuring efficient data flow & minimalizing prop drilling across

- components through centralized store management.
- **Vue-Router** used for routing to implement dynamic and nested routing in between views to navigate and handle user authentication with navigation guards.
- **ApexCharts** is used for data Visualization to build dynamic and responsive charts for visualizing real-time data.
- **OpenStreetMaps** (OSM) integration to provide live tracking, interactive map features with custom markers and layers

## Skills

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- HTML & CSS
- Javascript
- TypeScript
- Vue.js (2,3)
- React.js
  - Npm, Webpack
- Redux, Vuex
- Node.js
- UI/UX (Figma and Adobe XD)
- Python Anywhere (Flask)(Django)
- Python
- Bootstrap, Tailwind, Material UI

## Education

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**Kakinada Institute Of Engineering And Technology**  
B.Tech, Computer Science Engineering, JNTU  
Kakinada, India

May 2019

## Certificates & Awards

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- Certification in Vue.js Advanced Development (2022)
- Recognition for Outstanding Performance in Frontend Development (2023)

**Portfolio:** [Click Here](#)