

# VAMSHIDHAR REDDY GUDUPALLI

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## Summary

Frontend Engineer with 2+ years of experience designing and optimizing scalable, real-time **Industrial IoT** applications. Expertise in **Modern Frontend Architecture (React, TypeScript)**, **Observability**, and reducing load times by **40%+** for **20,000+** enterprise users.

## Technical Skills

**Languages:** JavaScript, TypeScript, HTML5, CSS3, C++, Python

**Frontend Architecture:** React.js, React Native, Angular, Redux Toolkit, RTK Query, TanStack Query, Vite

**Styling & UI Libraries:** Styled-Components, Tailwind CSS, Ant Design, Bootstrap

**Testing & QA:** Jest, Cypress, React Testing Library

**Monitoring & Analytics:** Sentry, Posthog, Datadog

**Developer Tools & DevOps:** Git, GitLab CI, Chrome DevTools, Postman, Webpack, Supabase

## Experience

### Maximl Labs

July 2024 – Present

Software Developer

Bangalore, Karnataka

- Orchestrated the frontend architecture for **3 enterprise-grade applications** tailored for the metals, oil, and gas industries, supporting **20,000+ users** and directly contributing to a **30% reduction in operational downtime**.
- Engineered a high-performance **Kanban System** managing **1,200+ concurrent work orders**; implemented **virtualization (windowing)** and optimistic UI updates to maintain **60fps performance** despite heavy DOM load.
- Cut application load times by **85 percent** (from 40 seconds to under 5) by identifying bottlenecks with **Chrome Performance Tools**, optimizing component behavior, and re-architecting key frontend flows for greater efficiency.
- Developed a low-latency, **event-driven notification infrastructure** using **WebSockets** and Novu; achieved **sub-2-second delivery** for critical safety alerts, ensuring instant field technician response.
- Integrated **observability pipelines** using **Sentry** and **Posthog**, enabling **automated error triage and silent failure detection**, which reduced Mean Time to Resolution (MTTR) for production issues by **25%**.
- Optimized the **Asset Management Module** (150,000+ nodes) by implementing **fuzzy search algorithms** and memoized components, reducing search query latency by **40%** and memory overhead by **30%**.
- Slashed client **report-creation effort by 99%** (from 1 day to **under 5 minutes**) by developing a scalable, interactive editor using **Tiptap**, including intelligent table synchronization, reusable templates, and seamless preservation of user edits.
- Refactored application routing to support a **Multi-Site Architecture**, utilizing session storage strategies to preserve context across complex user workflows and ensuring data integrity.
- Collaborated with backend teams to optimize API payloads and schemas, and conducted **code reviews** to enforce strict linting rules and maintain high code quality standards.

### Maximl Labs

July 2023 – June 2024

Front End Developer Intern

Bangalore, Karnataka

- Architected a **reusable Component Library** based on Ant Design and Tailwind, standardizing UI patterns across the organization and accelerating feature delivery velocity by **75%**.
- Designed a **CodeMirror-based Command Interface** featuring syntax highlighting and **AST-based validation**, significantly reducing user configuration errors by **60%**.
- Developed a robust **File Management System** supporting 200+ proprietary formats; implemented chunked uploads and secure pre-signed URL flows to handle large datasets efficiently.
- Enhanced application security by implementing **Role-Based Access Control (RBAC)** on the frontend, ensuring granular permission handling for sensitive industrial data.
- Thrived in a fast-paced startup environment, consistently delivering under tight deadlines and shifting priorities.

## Education

### SRM University, AP

July 2020 – May 2024

Bachelor of Technology in Computer Science and Engineering - 9.1 CGPA

Amaravati, Andhra Pradesh

## Achievements

- Winner of **IdeaMic Encounter** hosted by **BVRIT Hyderabad**; recognized for best innovative project presentation among 50+ teams.
- Consistently maintained **95%+ user satisfaction ratings** for deployed features based on direct client feedback loops.