

# RAM NIKHIL TEJA BUDIDE

Macherla, Guntur, Andhra Pradesh

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## Education

### Rajiv Gandhi University of Knowledge Technologies

Bachelor of Technology in Computer Science and Engineering, CGPA: 7.9/10

2020 – 2024

Basar, Telangana

## Professional Experience

### Actanos

November 2024 – Present

Frontend Developer

Singamaneni Palli, Andhra Pradesh

- Developed three production applications using React, TypeScript, and TanStack ecosystem for legal tech, document management, and CRM domains.
- Built dynamic form builder and email template builder with drag-and-drop functionality, reducing creation time by 75 percent.
- Implemented CSV bulk import with PapaParse for processing thousands of contacts and document editor with undo/redo, zoom, and resizable blocks.
- Engineered automatic workflow progression in case filing application and developed responsive company website using Tailwind CSS.
- Utilized TanStack Query for state management, TanStack Router for routing, and TanStack Table for data visualization.

## Technical Projects

### Neural Notes Sync | React, PWA, OPFS, SQL WASM, CRDTs, Yjs

Personal Project

- Architected local-first knowledge management app using Origin Private File System (OPFS) for high-performance file storage and SQL WASM for client-side database operations with complete offline functionality.
- Implemented Conflict-free Replicated Data Types (CRDTs) using Yjs library for multi-device synchronization with automatic conflict resolution.
- Leveraged OPFS API achieving 10x faster operations than IndexedDB and integrated SQL.js WebAssembly for complex queries with SQLite compatibility.
- Built Progressive Web App with service workers and full-text search using SQL WASM FTS5 extension for instant search across thousands of notes.

### Real-Time Chat Application | React, TypeScript, WebSockets, Node.js, Express, MongoDB

Personal Project

- Developed full-stack messaging application with WebSocket integration using Socket.io for instant bidirectional communication.
- Implemented user authentication, chat rooms, private messaging, typing indicators, online/offline status, and persistent message history.
- Built responsive chat UI with message threading, emoji support, file sharing, and infinite scroll using React virtual scrolling.
- Optimized WebSocket handling with automatic reconnection logic, message queuing for offline support, and efficient data synchronization.

### Dynamic Form Builder | React, TypeScript, Drag-and-Drop, Custom Hooks

Personal Project

- Built form builder with drag-and-drop interface for creating custom forms with real-time preview and validation feedback.
- Implemented multiple field types with customizable validation rules and conditional rendering using custom React hooks for state management.
- Developed form export/import as JSON for templates and built responsive design with mobile-first approach for cross-device experience.

## Technical Skills

**Languages:** JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL

**Frontend:** React.js (Hooks, Context API, Custom Hooks), TanStack Query, TanStack Table, TanStack Router, Yjs (CRDTs)

**Styling:** Tailwind CSS, CSS Modules, Responsive Design, Mobile-First Design

**Backend:** Node.js, Express.js, Hono, REST APIs, WebSockets (Socket.io)

**Databases:** MongoDB, PostgreSQL, IndexedDB, SQL.js (SQL WASM), SQLite

**Browser APIs:** Origin Private File System (OPFS), WebAssembly (WASM), Service Workers, Progressive Web Apps (PWA)

**Tools:** Git, GitHub, VS Code, Postman, npm, yarn, Webpack, Vite, PapaParse