

Mathan G

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SUMMARY

Software Engineer with 2+ years of experience in full-stack development using React, TypeScript, and NestJS, with hands-on expertise in building custom UI components, interactive node-based workflows with React Flow, and backend APIs

EXPERIENCE

Software Engineer

Torus Innovations

Oct 2023 – Present

Tirunelveli, Tamilnadu

- Developed full-stack applications using **React, TypeScript** on the frontend and **NestJS** on the backend
- Built **node-based workflow editors using React Flow**, enabling users to visually model complex workflows with custom nodes, edges, and grouping, reducing workflow configuration time by ~40%.
- Implemented complex **drag-and-drop** logic, parent-child node relationships and node based properties UI
- Built **OpenAPI-based JSON schema mapping** and nested JSON visualization/editors to support configurable, workflow-based systems
- Created custom, **accessible UI components** using React Aria, ensuring usability and accessibility compliance.
- Develop node-based workflow components for SQL and NoSQL database schema creation using tables/collections as nodes and relationships as edges, **reducing schema design iteration cycles by ~45%**.
- Built a **WYSIWYG, low-code UI builder**, allowing users to visually compose and position components using grid-based layouts, accelerating UI assembly by ~30%.
- Built a **real-time node and component property editors**, enabling instant updates to layout and behavior, improving feedback loops and developer productivity.
- Built backend APIs supporting **multi-tenant architecture with versioning**, enabling tenant isolation and scalable RESTful services.

PROJECTS

Torus Low Code platform | *React, Vite, React Flow, Nest js, Redis*

- Developed a low-code workflow automation platform with a node-based visual editor for designing and managing complex workflows.
- Designed reusable, schema-driven UI components to support configurable and extensible workflows.

Node-Based API Schema Mapper | *React , React Flow , Lodash*

- Built a visual, node-based **JSON schema mapper** for designing and editing OpenAPI request and response schemas mapping
- Used Lodash to compare new and existing schemas for validating changes and safely merging incoming schema updates.
- Implemented edge-level validation to ensure accurate mapping of request and response fields across connected schema nodes, reducing runtime mapping errors and invalid configurations.
- Built reusable components for request and response schema mapping and visualization to accelerate future workflow development.

SKILLS

Languages: Javascript , Typescript , HTML/CSS

Frameworks: React, React Flow , TanStack Start , Vite, Nest js , AI SDK

Database: Redis

Authentication and Security: JWT

Developer Tools: Git , Turbo Repo, vsCode

EDUCATION

Francis Xavier Engineering College

Master of Computer Application; GPA: 8.00

Tirunelveli, Tamilnadu

2021 – 2023

Sadakathullah Appa College

Bachelor of Computer Science; GPA: 8.3

Tiruneleli, Tamilnadu

2018 – 2021