

# Mathan G

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## SUMMARY

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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

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### 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

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### 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

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**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

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**Francis Xavier Engineering College**

*Master of Computer Application; GPA: 8.00*

**Sadakathullah Appa College**

*Bachelor of Computer Science; GPA: 8.3*

Tirunelveli, Tamilnadu

2021 – 2023

Tirunelveli, Tamilnadu

2018 – 2021