

Selva Ganesh V

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 2.7 years of experience building scalable enterprise platforms, workflow engines, and real-time collaborative systems using TypeScript, React, and Node.js. Skilled in designing RESTful APIs, graph-based processing, schema-driven architectures, and extensible plugin systems.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript
Frontend: React.js, React Native, Next.js, Svelte, React Flow, TanStack Start, Vite
Backend: Node.js, NestJS, Hono, ElysiaJS, REST API Design
Databases & Caching: MongoDB, PostgreSQL, Redis, Drizzle ORM, LRU Cache
Auth & Security: JWT, RBAC, BetterAuth
Tools & Infrastructure: Git, TurboRepo (Monorepo), Socket.IO, AI SDK, Agile/Scrum

EXPERIENCE

Software Engineer Oct 2023 – Apr 2026
Torus Innovations *Tirunelveli, TN, India*

- Core contributor to the **next-generation Torus Low Code Platform**, an event-driven application development platform used by **GSS Tech Group** to build and deploy **fintech and payment solutions across the UAE and Kenya**.
- Developed the platform's **entire frontend**, enabling visual application design across **UI, Data, Process, API, and Integration domains**, each with dedicated sub-modules and **independently managed artifacts**.
- Integrated **React Flow** for process flow orchestration and event binding, and developed **35+ RESTful APIs** with NestJS for artifact management, workflow orchestration, validation, and cross-module integrations.
- Implemented **graph-processing algorithms** including circular dependency detection, cross-node validation, and nested mutation handling, **eliminating invalid execution states** across the workflow engine.
- Built **real-time multi-user collaboration** with Socket.IO, implementing **artifact-level locking that scales with concurrent users**, enabling conflict-free editing across all modules.
- Designed a **schema-driven plugin system** with JSON schema uploads, consumed by a **dynamic JSON editor** with custom input types — enabling **runtime extensibility without redeployment**.
- Developed the platform's **WYSIWYG layout editor** with drag-and-drop, snapping, alignment guides, and dynamic resizing, used to build **20+ production screens** for client banking applications.

PROJECTS

Veza.db | *React, TanStack Start, AI SDK, Hono, PostgreSQL, Drizzle, Turborepo*

- Designed a scalable **monorepo architecture** using TurboRepo with shared packages for auth, database access, and caching.
- Built a **database management UI** with ER diagram visualization, interactive schema editor, and table data browser with inline editing.
- Implemented **multi-user auth and RBAC** using BetterAuth and JWT for secure access control across workspaces.
- Integrated an **AI-powered query assistant** that interprets relational schemas and generates context-aware SQL queries.

EDUCATION

Francis Xavier's Engineering College Tirunelveli, TN, India
Master of Computer Applications *Oct 2021 – Jun 2023*

St. John's College Tirunelveli, TN, India
Bachelor of Computer Applications *Jun 2018 – Apr 2021*