



National Institute of Technology, Kurukshetra

B.Tech, Information Technology

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SHUBHAM SUNNY

Senior Software Developer with 7+ years of experience building scalable web applications, intelligent automation systems, and AI-driven products. Experienced in leading teams, architecting optimized solutions for complex business challenges, and delivering systems that efficiently handle high-traffic and data-intensive workloads.

As AI continues to reshape software development, I believe that deep technical expertise, strong system design skills, and the ability to make the right engineering decisions are more valuable than ever. Passionate about continuous and daily learning, adapting to emerging technologies, and creating meaningful business impact through high-quality engineering.

WORK EXPERIENCE

- [Senior Software Developer – Yum! Brands \(Sept 2020 – Present\)](#)

I lead the development of internal tools that mix smart automation with clean, usable design. From building real-time dashboards to plugging AI into our workflows, I help teams make faster, data-backed decisions. Worked closely with data scientists to bring machine learning into the frontend — not just behind-the-scenes magic, but stuff users actually feel. Every project here has been a new puzzle, and I love it.

- [Software Developer – Kvantum Marketing Insights \(Sept 2020 – April 2021 \(Acquired By Yum Brands\)\)](#)

Worked on fast-moving, data-heavy UIs that help marketing teams understand what's working (and what's not). I played a key role in building powerful dashboards using Ant Design, Redux, and lots of logic under the hood. It was all about performance, clarity, and showing massive amounts of data in a way that actually makes sense.

- [Frontend Developer – Tolexo Online Pvt. Ltd. \(Sept 2019 – Sept 2020\)](#)

Built the frontend for a large-scale B2B platform. I focused on reusable components and fast-loading

pages to make sure buyers and sellers had a smooth experience. The pace was intense — but it pushed me to write cleaner, smarter code that scaled.

- **[Software Associate – Triyama Software Pvt. Ltd. \(April 2019 – Sept 2019\)](#)**

This is where I started putting full-stack skills into action. Worked on web tools using Node.js and Angular. Handled everything from APIs to UI — small team, big expectations, and lots of late nights solving tricky problems.

PROJECTS

- ***Massive Data Explorer*** – **Live at : <https://mde-web.onrender.com>**

- Built a full-stack data explorer over 1M records with cursor-paginated API, server-side search/filter/sort, and TanStack Virtual rendering ~30 DOM rows via infinite scroll.
- Separated UI state (Redux), server state (RTK Query), and persistence (IndexedDB) so API data never leaked into UI slices.
- Added a Control Center with 21 runtime toggles wired to real code paths — turning off virtualization, debouncing, or caching causes measurable scroll jank, API spikes, and re-renders.
- Shared Zod contracts across a TypeScript monorepo for API validation, filter parsing, and frontend forms, with Vitest, Playwright, and axe-core test coverage.

- ***Offline First Task Management App***

Live at : <https://offline-first-task-management-app-ui.onrender.com>

- Built an offline-first ecommerce PWA where IndexedDB is the write path which is users shop and checkout without connectivity; orders sync to the server when back online.
- Designed a client operation queue with idempotency keys, retry backoff, and conflict handling so flaky networks don't lose or duplicate orders.
- Extended RTK Query with a Dexie-backed offline base query — local cache serves reads offline; UI updates instantly without blocking on the API.
- Shipped a TypeScript monorepo (Astro, React, Express) with Workbox PWA caching, cross-tab sync, E2E offline tests, and production deploy on Render.

- ***Server Driven UI*** – **Live at : <https://sdui-pypy.onrender.com>**

- Built a server-driven UI platform where JSON schemas define pages, forms, and actions — removing frontend redeloys for structural changes to admin tools.
 - Designed a recursive rendering engine (component registry, permission gates, action dispatcher) with 15+ schema-driven components and shared Zod validation across API and client.
 - Implemented server-side RBAC and feature-flag filtering so each role gets a different UI from one schema — e.g. Admin sees action buttons on `/orders`, Viewer gets read-only.
 - Shipped SDUI Live Studio (schema inspector + role matrix) and deployed as a single Node service with JWT auth and Playwright E2E tests for RBAC visibility.
- **Frontend Plugin Platform** – **Live at** : <https://fpp-host.onrender.com>
 - Built a VS Code-style plugin platform (Astro/React host, Express API) so teams ship features via marketplace install/enable—without redeploying the core app.
 - Designed plugin integration through a SDK, Component Registry, and Zod-validated Event Bus with permission checks—plugins talk via events, not direct imports.
 - Added fault isolation: dynamic loading, per-plugin error boundaries, health tracking, their compatibility checks, and cleanup on disable/uninstall.
 - Split host vs plugin state (Redux/RTK Query vs local reducer) for performance and scale; covered with Vitest and Playwright E2E.
- **NPM Module for Server Driven UI** – **Live at** : <https://www.npmjs.com/~shubhamsunnynitkkr>
 - Built a server-driven UI framework (3 npm packages) that turns JSON schemas into React admin pages, separating a UI-agnostic core from Ant Design and Recharts adapters.
 - Designed registry-based rendering with declarative actions, conditional fields (`visibleIf`), and schema-driven validation—complex flows live in JSON, not JSX.
 - Shipped with TypeScript contracts, 80%+ core test coverage, tree-shakeable ESM/CJS builds, and live demos on Render.

SKILLS

- **Frontend:** HTML5, CSS3, JavaScript (ES6+), TypeScript, React, Next.js, Redux, Zustand, TanStack Query (React Query), Tailwind CSS, Ant Design, Material UI, Responsive Design, Performance Optimization
- **Backend & APIs:** Node.js, Express.js, REST APIs, GraphQL, WebSockets, Authentication (JWT, OAuth 2.0)
- **AI & Automation:** OpenAI APIs, LangChain, LangGraph, PydanticAI, AI Agent Development, RAG Systems, Prompt Engineering, Browser Automation, Web Scraping, Realtime AI Applications
- **Database & Cloud:** MongoDB, PostgreSQL, Firebase, Supabase, AWS, Vercel, Netlify

- **DevOps & Tools:** Git, GitHub, GitHub Actions, Docker, Kubernetes, CI/CD Pipelines, Vite, Webpack, Postman
- **Architecture & System Design:** Scalable Application Architecture, Frontend Architecture, System Design, Component-Driven Development, State Management, API Integration, Performance Engineering, Scalable Web Application Development

EDUCATION

- **10th standard (2012)**
 - School: East & West High School, Bela(Patna)
 - Board: Central Board Of Secondary Education(CBSE)
 - Scored 8.4 CGPA on Scale of 10, equivalent to 80%.
- **12th standard(2014)**
 - Board: National Institute of Open Schooling
 - Scored 84.00% on scale of 100.00
- **Graduation (2018)**
 - Board: National Institute of Technology Kurukshetra (NITKRR)
 - Scored 8.6 SGPA on scale of 10 SGPA

PERSONAL DETAILS

- **Father's Name:** Shri Vinay Thakur
- **Date of Birth:** 1st September 1997
- **Permanent address:** New Manichak ,Masaurhi, Patna , Bihar , 804452, India.
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