VIMAL SARASWAT

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Full-Stack Engineer with 2+ years of experience building data-heavy B2B products with React, TypeScript, Node.js and PostgreSQL. Shipped schema-driven form systems, concurrency-safe backends and PDF/maps-heavy UIs in production; also built AI-powered SaaS and Tauri desktop apps.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, SQL, Python, Rust
Frameworks & Libraries	React.js, Next.js, Node.js, Express.js, FastAPI, Redux, Zustand, Tailwind
Databases & ORMs	PostgreSQL, Drizzle ORM, MongoDB, Prisma, Knex
Tools & Platforms	Docker, Podman, Git, Turborepo, Sentry, Tauri, Google Maps API
Concepts	REST APIs, WebSockets, SSE, OAuth 2.0, JWT, RBAC

PROFESSIONAL EXPERIENCE

SDE I — April 2026 - Present
Manufac Analytics Pvt. Ltd. — *Gurugram - In-Office*

- Designed a declarative, schema-driven form engine (**TypeScript**, **Zod**) with path-based references, computed fields and cycle detection; migrated three legacy workflows and production data onto it via dry-run-verified migration scripts.
- Eliminated race conditions in concurrent writes using row-level locking, **PostgreSQL** triggers and 409 conflict handling; added transactional soft deletes with cascading, DB constraints and owner-only **RBAC**.
- Root-caused intermittent production save failures to the 64KB `keepalive` limit on large autosave payloads; fixed the request path and added **Sentry** across frontend and backend.

Junior Software Developer — March 2025 - April 2026
Wasserstoff RJ Innovations Pvt. Ltd. — *Gurugram - In-Office*

- Delivered AI-powered SaaS products serving 500+ active users; converted the Litt Law web platform into a cross-platform desktop app with **Tauri** and **Rust**, integrating **LiteLLM** for unified access to multiple LLM providers.
- Cut UI latency by 40% and removed redundant API calls by restructuring **Redux**/**Zustand** state; implemented real-time features (**WebSockets**, SSE) and **OAuth 2.0**/**JWT** auth, plus **MetaMask**/**WalletConnect** wallet login.

Full-Stack Developer Intern — September 2024 - March 2025
Wasserstoff RJ Innovations Pvt. Ltd. — *Gurugram - In-Office*

- Refactored legacy **React.js** and **Node.js** codebases: consolidated reusable component libraries, eliminated 40% code duplication, reduced bundle size by 25%, and accelerated feature delivery cycles.
- Developed production REST APIs with **Express.js** and high-performance workflow UIs using **React Flow**, virtualized tables, and reusable component libraries optimized for large dataset rendering.

PROJECTS

Sealed Books - Tamper-Evident Accounting Ledger (ETHOnline 2026) — GitHub Live Demo

- Engineered a double-entry ledger in **Rust** (**Axum**, **Tokio**, **LibSQL**) with integer-cent arithmetic and a deterministic SHA-256 Merkle tree over canonicalized journal entries, so any edited, deleted or backdated entry is detectable.
- Enforced a 2-of-2 controller/auditor period close using **Privy** server-wallet signatures, and anchored the signed seal to **Hedera Consensus Service** (testnet) so anyone can verify records independently via the public Mirror Node.
- Shipped a **React**/**TypeScript** web client and **Tauri** desktop app from one monorepo, backed by 72 automated tests.

MoneyForge - Personal Finance & Budget Management SaaS — GitHub Live Demo

- Launched a full-stack finance platform using **Next.js**, **NextAuth.js**, **Drizzle ORM**, and **PostgreSQL**, featuring expense tracking, budget management, and financial goal monitoring with analytics.
- Integrated **Vercel AI SDK** for AI-powered financial insights, Google OAuth, transactional email notifications, and interactive analytics dashboards with a fully responsive cross-device UI.

EDUCATION

B.Tech in Computer Science — 2022 - 2026
Maharshi Dayanand University, Rohtak

ACHIEVEMENTS & CERTIFICATIONS

- **Winner** - Tableland Bounty, Decentralized Intelligence Hackathon (LearnWeb3, April 2024): developed a decentralized messaging solution using **Tableland**, **Solidity**, and **Scaffold-ETH 2**.
- **CS50x**: Introduction to Computer Science, Harvard University (2023) — Certificate