


# Tushar Pasricha

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## EXPERIENCE

### •Software Engineer I

Oct 2024 – Present

*Ascent Risk and Resilience Software*

Gurugram

- Built core features of a **full-stack GRC platform** using Next.js (App Router), TypeScript, Node.js/Express, and MongoDB, delivering a scalable and production-ready system.
- Architected and implemented a **multi-channel notification system (in-app, browser, email)** with user preferences, reminders, and real-time delivery using Socket.IO and AWS SES.
- Designed and implemented **JWT-based authentication and Role-Based Access Control (RBAC)** supporting 7 roles across 23 departments, ensuring secure and granular access management.
- Engineered and deployed **40+ secure RESTful APIs** with Joi validation, rate limiting, structured error handling, and CORS configuration to ensure reliability and security.
- Developed a **secure file upload and storage system** using Multer with MIME/type validation, size limits, and structured storage, preventing malicious uploads.
- Built **scalable and responsive admin dashboards** using React, Next.js, TanStack Table, and React Query with advanced filtering, bulk actions, and pagination.
- Integrated **real-time collaborative document editing and version control** using OnlyOffice and Docker, enabling live policy editing and audit tracking.
- Implemented **audit trails, versioning, and approval workflows** to ensure compliance, traceability, and regulatory readiness across the platform.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** JavaScript, TypeScript, C++

**Frontend:** React.js, Next.js, Tailwind CSS, Shadcn UI

**Backend:** Node.js, Express.js, Rest APIs, Firebase, MERN Stack

**Database :** SQL, MySQL, NoSQL, MongoDB

**Tools and Version Control:** Git, GitHub, Docker, Postman, JWT

## PROJECTS

### •Spendly

[Live link](#)

*AI-Powered Personal Finance Manager.*

[Github](#)

- Designed and built an **AI-powered full-stack personal finance platform** using React, Node.js, Express, and MongoDB to track income, expenses, and balances with real-time analytics.
- Implemented an **AI-driven bank statement import system using OpenAI**, enabling automatic parsing and categorization of CSV/Excel transactions and significantly reducing manual data entry.
- Engineered **secure RESTful APIs with validation, rate limiting, and structured error handling**, ensuring reliable and scalable transaction processing.
- Developed **responsive React dashboards with interactive charts and period-based analytics**, delivering a modern, mobile-first user experience with dark mode support.

### •Local Canvas

[Live Link](#)

*Infinite Whiteboard Application*

[Github](#)

- Developed a **high-performance, local-first whiteboard application** using React 18 and TypeScript, leveraging HTML5 Canvas for rendering.
- Implemented complex canvas interactions such as **infinite panning, zooming, and shape manipulation by handling coordinate translations** between screen and world space.
- Engineered a custom **Undo/Redo system using React Hooks and immutable state updates**, ensuring robust data integrity and session persistence via LocalStorage.
- Refactored the layering architecture from property-based Z-indexing to a **deterministic array-based system**, eliminating rendering bugs and ensuring reliable shape selection.
- Integrated **Rough.js to create a unique hand-drawn aesthetic** for vector shapes while maintaining 60fps performance through optimized React re-renders.
- Optimized the application for offline usage by developing a **resilient schema migration strategy** ensuring backward compatibility for saved user data.

## EDUCATION

### •Jaypee Institute of Information Technology, Noida

Aug 2020 - Jun 2024

*B.Tech in Computer Science and Engineering (CSE)*

CGPA: 7.6