

Mayank Sarasiya

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🔗 <https://mayank-portfolio-seven.vercel.app/>

Summary

Frontend Developer with **4 years** of experience, skilled in designing and developing high-quality software architectures and implementing full-stack solutions.

Technical Skills

Languages & Frameworks: React.js, Redux & Redux Toolkit, Next.js, TypeScript, JavaScript (ES6), SCSS, Tailwind CSS, Styled Components, MUI

Cloud & Backend: AWS (EC2, S3, Lambda, IAM, API Gateway, CloudFormation, CloudWatch, RDS), Node.js

Databases: MongoDB (CRUD, Indexing, Aggregation), MongoDB Atlas

Version Control: Git, GitHub

Tools & Platforms: Postman, Vercel, Netlify, AWS CLI, Studio 3T.

Experience

Techstuff Pvt. Ltd.

Nov 2022 - Feb 2024

React, Next Developer

- Developed web applications using React and SvelteKit framework for high-performance solutions.
- Created database migration system ("Migrator") to transfer data between multiple APIs.
- Developed a dental management system enabling dentists to track inventory and manage dental supplies including dentures and procedural equipment.
- Utilized Tailwind CSS extensively for efficient UI development and design systems.
- Architected AWS-hosted microservices (EC2, Lambda) with secure IAM policies, reducing infrastructure costs by 20% and improving deployment reliability.
- Developed automated S3-backed file upload/download functionality and configured lifecycle rules to optimize storage.

MindNerves Technology Services Pvt. Ltd.

Apr 2021 - Apr 2022

MERN Stack Developer

- Created tools and applications by producing clean & efficient code and supervising code testing & debugging.
- Collaborated with vendors and cross-functional teams to fix & improve products.
- Documented development phases & monitoring systems and ensured software is up-to-date with the latest technologies.
- Increased application processing speed by 70% by optimizing Node.js workflows and instituting code-review best practices.
- Designed and implemented scalable RESTful APIs using Node.js and Express, integrating MongoDB Atlas for flexible, high-availability data storage.

Personal Technical Projects

Blog Platform with Enterprise Search | *Next.js, MongoDB Atlas, Express, Redis, TypeScript*

🔗 [Link](#)

- Built **production-ready** blogging platform with **MongoDB Atlas Search**, Redis caching, and multi-client API architecture serving both web and portfolio sites.
- Engineered **custom annotation system** supporting **overlapping highlights** and nested selections—solved complex DOM range collision detection that TipTap doesn't natively support.
- Implemented **enterprise search** with fuzzy matching, tag filtering, and faceted search using **MongoDB Atlas Search indexes** (token-based array filtering).
- Architected **secure API** with API key validation, Supabase authentication, and role-based access control serving multiple client applications.
- Designed **polymorphic content schema** with 15+ block types (code, tables, lists) and built migration system with dry-run capability for zero-downtime updates.

- Optimized performance with **Redis caching** (Upstash), rate limiting, and reduced API response times by 70% using compression middleware.

Chrome Web Highlighter | *Vanilla JavaScript, Chrome Manifest V3, Redux Toolkit, Shadow DOM, DOMPurify* [Link](#)

- Production-ready **Chrome extension** with 10,000+ lines of enterprise-grade JavaScript code.
- Implemented **Redux Toolkit** for complex state management across isolated content scripts and cross-tab synchronization.
- Architected **Shadow DOM** isolation (3,944 lines) to prevent CSS conflicts with any website, ensuring zero interference.
- Built comprehensive security features including **DOMPurify** for XSS prevention and Content Security Policy compliance.
- Optimized performance with **DOM batching** using **RequestAnimationFrame**, achieving sub-100ms operations for 1,000+ highlights.
- Designed **scalable architecture** with 400+ error handlers, ready for 100,000+ users with graceful degradation patterns.

React Admin Dashboard Template | *React 19, Tailwind CSS v4, Redux Toolkit, Radix UI,*

React Hook Form, TanStack Query

 [Link](#)

- Production-ready **admin dashboard** with 80,000+ lines of enterprise-grade React code across 500+ components.
- Engineered **dynamic theme system** with 8 color schemes using OKLCH color space conversion, enabling real-time theme switching with CSS variable manipulation.
- Implemented **Redux Toolkit** for global state management with persistent settings across sessions using localStorage integration.
- Built comprehensive **component library** with Radix UI primitives and shadcn/ui, ensuring WCAG accessibility compliance and keyboard navigation.
- Architected **form validation system** using React Hook Form with Yup schemas, supporting async validation, conditional rules, and real-time error handling.
- Optimized performance with **TanStack React Query** for data fetching, code splitting with React Router, and Framer Motion animations achieving 60fps interactions.

Code Editor | *ES BUILD wasm, UNPKG, LocalForage, Immer*

 [Github](#)

- A CLI (Command Line Interface) application.
- The CLI can be installed on users' machines.
- Users can use the CLI to launch an interactive development environment (IDE) inside their browsers.
- The IDE allow users to write code and simultaneously document their work

Task Manager Application | *ReactJS, ExpressJS, MongoDB, Firebase, HTML, CSS*

 [Github](#)

- MERN stack application with CRUD operations and **JWT** login.
- State managed using **Redux Toolkit**, context API.
- Dependencies: **react-hook-form**, **yup resolver**, notistack, nprogress, Mui, conify, axios, react-router.
- Optimization using **useMemo**. Used hooks: **useRoutes**, **useNavigate**, **useRef**, **forwardRef**, **useState**, **useEffect**.

Drag And Drop Application | *ReactJS, ExpressJS, MongoDB, Firebase*

 [Github](#)

- MERN stack app with CRUD operations and **JWT** login. State managed using **Redux**.
- Dependencies: **Bootstrap 5**, **react-beautiful-dnd**.
- Allows users to add, drag-drop tasks, and edit.
- Backend: **Node.js** with **MongoDB**.

Education

Intermediate Javascript Nano Degree

Mar. 2021 - May 2021

Udacity

MBA In Business Analytic

Jun. 2018 - Jun. 2020

Jagran Lakecity University, CGPA: 7.6

Bhopal, India

BBA

Jun. 2010 - Jun. 2013

Barkatullah University

Bhopal, India