

Shruti Pandya

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Technical Skills

Frontend: React.js, Next.js, JavaScript, TypeScript
Databases: PostgreSQL, MongoDB, MySQL

Realtime: WebSocket, WebRTC, Socket.io
Tools: Prisma, Sequelize, MUI, Tailwind, n8n, Git

Backend: Node.js, NestJS, Express.js, RESTful APIs
Cloud & DevOps: AWS (EC2, S3), Prometheus, Grafana, Docker, Kubernetes, Kafka
API Tools: Postman, Swagger

Experience

Bhaskaracharya Institute for Space Applications and Geoinformatics (BISAG) Feb 2024 – Present
Full Stack Developer - MERN — React, Node, PostgreSQL, Sequelize, MUI Gandhinagar, Gujarat

- Optimized a production React application serving **8L+ users**, reducing render time by **80%** through memoization, lazy loading, and component restructuring.
- Designed and led development of a multi-step SaaS workflow engine for **600+ users**, handling conditional routing, rollback logic, and role-based state transitions — led a team across the project lifecycle.
- Implemented authentication and authorization across **3+ internal applications** aligned with **ISO 27001** security standards — covering JWT, RBAC, secure token handling, and HTTP security headers.

Language Loop July 2023 – Jan 2024
Full Stack Developer - MERN — Next.js, Nest.js, MongoDB, PostgreSQL, Prisma, GraphQL, Socket.io, Azure Rajkot, Gujarat

- Independently owned backend and admin panel for a dating application (**1,000+ users**) — built with Node.js, Socket.io, MongoDB, and React; managed client communication and cross-team coordination.
- Delivered a NestJS + Next.js + Prisma admin panel for a company product, focused on modular architecture and clean data access patterns.

Ace Analytics June 2021 – Aug 2022
MERN Stack Developer — Node.js, Socket.io, jQuery, MySQL, Git & Github Rajkot, Gujarat

- Maintained and enhanced backend for a transportation management system — wrote complex SQL queries fetching and joining data across **2 separate MSSQL databases**; handled frontend using jQuery.
- Converted Figma designs into React components for an e-commerce product, building reusable UI across multiple pages.

Projects

Blog App Monorepo | Cloudflare Workers, React & Prisma

- Architected a high-availability serverless platform using **Cloudflare Workers** and **Turborepo**, achieving sub-100ms global latency through edge-side authentication and optimized build pipelines.
- Engineered a scalable Prisma/PostgreSQL persistence layer with **specialized connection pooling** to maintain high performance across distributed, ephemeral serverless environments.

Asset Exchange Application | Next.js, Node.js, TypeScript, Redis, PostgreSQL

- Engineered a decoupled, real-time asset exchange platform using **TypeScript**, linking an independent **Next.js** client with a high-performance **Node.js** backend handling live market subscriptions.
- Architected a low-latency data pipeline utilizing **Redis Pub/Sub** for real-time market updates and **Redis Queues** to asynchronously offload order book updates and **PostgreSQL** database writes.

Education

Darshan Institute of Eng. & Tech. 2018 – 2022
BE – Computer Science and Information Technology (CGPA: 8.93 / 10.00) Rajkot, Gujarat
Pathak Schools 2016 – 2018
Class XII (GSEB) (Percentage: 69.53 / 100) Rajkot, Gujarat