

Priyansh Soni

Backend Engineer - Node.js · PostgreSQL · Redis | Built & load-tested a queue-based notification platform

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EDUCATION

Madhav Institute Of Technology And Science, Gwalior

2024-2028

B.Tech in Artificial Intelligence And Data Science | CGPA: 8.14

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C++, Python, SQL

Backend: Node.js, Express.js, REST APIs, BullMQ, Prisma ORM, JSON Web Tokens (JWT)

Databases and Caching: PostgreSQL, MongoDB, Redis

DevOps and Tooling: Docker, Docker Compose, GitHub Actions (CI/CD), Prometheus, Grafana, k6, Git, Postman

Frontend: React.js, Tailwind CSS, Framer Motion

Core: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks.

PROJECTS

Nexus - Multi-Tenant Notification Infrastructure Platform | **Tech Stack:** Node.js, Express.js, PostgreSQL, Prisma, Redis, BullMQ, TypeScript, Docker | [Link](#)

- Architected a multi-tenant, multi-channel (Email, In-App, Webhook) notification platform with asynchronous Redis-backed BullMQ job queues; load-tested with k6 to sustain **100 req/s** with a **median latency of 35ms**, **p95 latency of 957ms**, and a **0.01% error rate**.
- Guaranteed exactly-once processing by closing an idempotency race condition in-memory using an atomic Redis SET NX distributed lock, preventing PostgreSQL connection pool exhaustion and ensuring constant-time duplicate rejection.
- Implemented per-tenant sliding-window rate limiting using Redis sorted sets and an optimistic single-pipeline execution, minimizing network round-trips while entirely eliminating the fixed-window boundary-burst exploit.
- Deployed 3 containerized workers (Docker Compose) with capped exponential backoff (1s to 30s) and a dead-letter queue, isolating per-channel queues to prevent head-of-line blocking during provider outages.
- Instrumented per-worker Prometheus metrics with Grafana dashboards (p95 delivery latency, queue depth, per-channel error rate) and Continuous Integration (CI) via GitHub Actions running typecheck and Vitest suites on every push.

StreamCore | **Tech Stack:** Node.js, Express.js, MongoDB, Cloudinary, Gemini AI | [Link](#)

- Built a RESTful API with **30+ endpoints** secured via dual-token JSON Web Token (JWT) authentication with httpOnly cookie-based token rotation and server-side revocation.
- Engineered a content-based recommendation engine using MongoDB aggregation pipelines over user watch history with tag-frequency scoring for relevance ranking.
- Integrated Gemini AI for pre-save comment moderation, semantic search expansion, and automated SEO tag generation, protected by 3-tier rate limiting (global, auth, AI routes).

EXPERIENCE

Full Stack Developer Intern - Code With Conscience (student-led nonprofit-tech initiative) | [Link](#) July 2026 - Present

- Building a unified impact-management platform for nonprofits - developing dashboard UI and data-visualization views for donor-ready reports, and building Next.js API routes to handle CSV/Excel/PDF data ingestion and serve it to the frontend.

Co-Lead, GFG Campus Body, MITS DU | [Link](#)

Oct 2024 - Present

- Led frontend development of the official GeeksforGeeks (GFG) Campus Body MITS website using React.js, Tailwind CSS, and Framer Motion, serving **2,000+** visits in production while managing the developer team and code reviews.

Freelance Developer - Delivered two client websites end-to-end built with React and Tailwind CSS. | [Link](#)

Dec 2024

ACHIEVEMENTS

Google Big Code 2026 - Top 1,500 / 100,000+ participants

March 2026

IIT Roorkee General Championship - 2nd Place, Team MITS (4 members)

Feb 2025

Solved 200+ problems on LeetCode and other platforms (Data Structures and Algorithms)