

Sumit Kumar

Full Stack Engineer • Real-Time Systems • Scalable Backend Architecture

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Professional Summary

Full Stack Developer experienced in building production-grade real-time systems and scalable backend architecture with React.js, Node.js, TypeScript, MongoDB, PostgreSQL, Redis, and Socket.IO. Skilled in distributed systems, async job queues, idempotency, and sub-50ms delivery; deployed on AWS, Vercel, and Railway. Seeking full-stack or backend engineering roles in high-growth teams.

Technical Skills

Languages	JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3
Backend	Node.js, Express.js, Socket.IO, BullMQ, Redis, JWT, OAuth 2.0, RESTful APIs
Frontend	React.js, Next.js, Tailwind CSS, Vite, Responsive Design
Databases	MongoDB, Mongoose ODM, PostgreSQL, Redis, Supabase
DevOps & Tools	Git, GitHub, GitHub Actions, AWS (EC2, S3), Azure, Vercel, Railway, Postman, Jest, Swagger/OpenAPI

Projects

CollabDocs — Real-Time Collaborative Editor github.com/imsumit28/CollabDocs | collabdocs2026.vercel.app

Stack: Next.js, Node.js, TypeScript, Socket.IO, Yjs, MongoDB, Redis

- Built CRDT-based collaborative editor enabling conflict-free multi-user editing with sub-100ms sync latency via Socket.IO and Redis pub/sub adapter for horizontal scaling across server instances.
- Integrated Groq AI writing assistant (Llama 3.3 70B) with rate limiting; secured via JWT and Google OAuth with HttpOnly cookies; documented 25+ REST endpoints using Swagger/OpenAPI.
- Achieved $\approx 60\%$ test coverage with 45+ Jest test cases covering core editing, auth, and API flows.

Curlix — Production-Grade URL Shortener github.com/imsumit28/Curlix | curlix.vercel.app

Stack: React.js, Node.js, Express.js, PostgreSQL, Redis, BullMQ

- Architected sub-10ms URL redirects using Redis cache in front of Supabase PostgreSQL; decoupled analytics from redirect hot path via BullMQ async queue with 3-retry exponential backoff.
- Implemented bearer-token auth, tiered Redis rate limiting (10K req/min global, 50/min per user), and Cloudflare Turnstile bot protection for zero-account usage flow.

NotifyX — Distributed Real-Time Notification System github.com/imsumit28/NotifyX | notifyx-sumit.vercel.app

Stack: Node.js, Express.js, BullMQ, Redis, MongoDB, Socket.IO

- Engineered async notification platform with BullMQ job queue (5-retry backoff), Dead Letter Queue with replay support, and sub-50ms delivery latency at 10K events/min scale.
- Eliminated duplicates via two-layer idempotency (Redis SETNX + MongoDB sparse unique index); built sliding-window rate limiting and 30-second batch grouping of repeated actions.

DevConnect — Developer Networking & Hiring Platform github.com/imsumit28/DevConnect | devconnect2026.vercel.app

Stack: React 19, Node.js, Express 5, MongoDB, Socket.IO, JWT, OAuth 2.0, Cloudinary, Railway

- Architected full-stack social platform with real-time messaging, feed, and notifications via visibility-aware Socket.IO fan-out; secured 40+ REST endpoints with JWT, Google/GitHub OAuth 2.0, and TOTP-based two-factor authentication (RFC 6238).
- Built organization accounts with role-based access control, MongoDB text/compound-indexed job board, trending ranking algorithm, weighted user recommendations, and cursor-based pagination.

Experience

Full Stack Developer Intern 05/2025 – 08/2025

EncodersPro Private Limited, Noida, India

3 months

- Delivered 5+ React.js UI components and 8+ Node.js RESTful API endpoints within a 6-member Agile/Scrum team; managed feature branches and pull requests using Git and GitHub, cutting review turnaround by 30%.
- Maintained CI/CD pipeline via GitHub Actions and deployed services to AWS; participated in sprint planning and daily stand-ups, contributing to a 20% reduction in sprint bug count across 3 two-week sprints.

Education

B.Tech, Computer Science & Engineering CGPA: 8.18 / 10.0

Vellore Institute of Technology (VIT), Bhopal, India

08/2024 – 05/2028

Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Object-Oriented Programming

Certifications: Applied Machine Learning in Python (2025) — [Coursera](https://www.coursera.org), [University of Michigan](https://www.universityofmichigan.edu) | JavaScript Intermediate (2025) — [HackerRank](https://www.hackerrank.com)