

Saurav Tiwari

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EDUCATION

Galgotia College Of Engineering And Technology

Bachelor of Technology in Information Technology

Greater Noida, UP

December. 2021 – June 2025

EXPERIENCE

Software Developer Engineer

August 2025 – Present

Bytivity Technologies

Noida, UP

- Engineered scalable full-stack applications—including ERP systems, e-commerce platforms, and real-time chat apps—serving thousands of daily active users with high availability and performance. Optimized Rest api Response time by 80% .
- Architected robust system designs with 35+ interconnected entities and low-latency REST APIs ; deployed via Docker containers on AWS for seamless backend scalability.
- Built high-performance chat application integrating GenAI services, Google Cloud APIs, Google Maps, and Redis caching for real-time messaging and geolocation features.

Backend Developer Intern

Sep. 2024 – June 2025

Bytivity Technologies

Noida, UP

- Architected enterprise Hospital Management System with 45+ interconnected MongoDB entities, 30+ API modules, and multi-tenant architecture, serving 100+ daily active users across multiple hospitals with role-based access control for 7 user types.
- Optimized REST API response time by 80% implementing 229 MongoDB aggregation pipelines with strategic indexing, parallel query execution (facet), DAL pattern, and compression middleware—reducing average endpoint latency from 2s to 400ms.
- Deployed Docker-containerized microservices on AWS integrating 7+ services (S3, SES, SNS, Google Cloud Translate, WhatsApp API), enabling automated multi-channel patient communication and achieving 99.9% uptime with serverless-ready architecture.

PROJECTS

EstateCraft | *React, Express, Socket.io, Prisma, PostgreSQL, Docker*

- * Developed a REST API using Node.js, Express, and Prisma ORM with 40+ PostgreSQL models featuring complex relationships, atomic transactions, and role-based access control
- * Implemented JWT authentication with Redis-cached permissions, OTP-based password recovery, and multi-tenant user management supporting 4 user types
- * Built real-time notification system using Socket.IO, integrated AWS S3 for file storage, and containerized the application with Docker for multi-environment deployment

ChitChat - Real-Time Social Media Platform | *Node.js, Express, MongoDB, Socket.IO, AWS, Redis* [Dates]

- * Designed and implemented a production-ready social media backend with 30+ REST API endpoints and 80+ real-time WebSocket events handling messaging, feeds, notifications, and user interactions
- * Built scalable data architecture with MongoDB featuring 42 schemas, optimized indexes for geospatial queries, text search, and complex aggregation pipelines for feed generation
- * Implemented media processing pipeline with AWS S3 for storage, FFmpeg for audio transcoding (AAC to PCM16), and asynchronous video moderation with job-based status polling
- * Developed authentication system with JWT, OAuth 2.0 multi-provider support, phone OTP verification via Twilio, and secure token versioning for session management

TECHNICAL SKILLS

Languages: C/C++, Javascript, Go, Python, SQL (Postgres), HTML/CSS,

Frameworks: Nextjs, Angular, TailwindCSS, Express, Mantine, Node.js, FastAPI, Gin

Developer Tools: Git/Github, Docker, AWS, Google Cloud Platform, VS Code

Libraries: React, Gin