

Shivam Gupta

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PROFESSIONAL SUMMARY

Backend Engineer with 1+ years of experience building scalable Node.js microservices, system design, and database optimization. Proven track record in production systems with measurable impact on performance and reliability. Specialized in:

- High-performance backend systems (reduced response times by 92%)
- Microservices architecture (built systems handling 20K+ listings)
- Database optimization (95% cache hit ratio with Redis)
- DevOps automation (reduced deployment time by 75%)

TECHNICAL SKILLS

Backend Technologies

Node.js • Express.js • Fastify • JavaScript • TypeScript • Microservices Architecture

Databases & Caching

MongoDB • Redis • MongoDB Replica Sets • Database Sharding • SQL • MongoDB

DevOps & Cloud

Docker • CI/CD • GitHub Actions • AWS S3 • Hostinger VPS • Blue-Green Deployment

Tools & Libraries

BullMQ • Socket.IO • JWT • Winston • React • Tailwind CSS • Git

KEY ACHIEVEMENTS

- Built microservices handling **20K+ listings** with **99.9% uptime**
- Optimized query response time from **2.5s to 180ms** (92% improvement)
- Achieved **95% cache hit ratio** with Redis optimization
- Improved system throughput by **45%**
- Reduced deployment time from **20 to 5 minutes** (75% faster)
- Solved **400+ problems** on LeetCode and GFG
- Participated in **30+ CodeChef contests**

CODING PROFILES

- LeetCode: <https://leetcode.com/yesshivam/>
- CodeChef: <https://www.codechef.com/users/yesshivam>
- GFG: <https://www.geeksforgeeks.org/user/yupshivam/>

EDUCATION

Lovely Professional University

B.Tech Computer Science

Aug 2020 May 2024

Punjab, India

TECHNICAL COMPETENCIES

- System Design:** Microservices, Database Optimization, Caching Strategies, API Design
- Security:** JWT Authentication, RBAC, Data Encryption, OWASP Standards
- Performance:** Query Optimization, Indexing Strategies, Efficient Algorithms

PROFESSIONAL EXPERIENCE

Reeltor Pvt Ltd

Backend Engineer

reeltor.com

June 2024 Present | Delhi, India

- Built microservices architecture from scratch using Node.js, Redis, and BullMQ with MongoDB replica sets and sharding, handling **20K+ property listings** with consistent uptime.
- Implemented high-performance caching and analytics system using Redis pub/sub invalidation (**95% cache hit ratio**) and MongoDB aggregation pipelines, reducing query response time from **2.5s to 180ms** and improving system throughput by **45%**.
- Developed real-time communication infrastructure including scalable chat microservice using Fastify, Socket.IO with optimized rate limiting and JWT-based RBAC authentication supporting multi-role access control.
- Created intelligent business algorithms including property ranking based on user behavior and dynamic pricing model with in-app purchases, improving user engagement by **40%**.
- Integrated cost-optimized third-party services using hybrid Ola and Google Maps APIs, reducing geolocation costs by **60%** while maintaining improved accuracy for property listings.
- Established production-ready DevOps infrastructure with Docker CI/CD pipeline, blue-green deployment strategy (reducing deployment time from **20 to 5 minutes**), and comprehensive Winston logging achieving **99.5% system reliability**.

QUADB Technology

<https://quadbtech.com/>

Full Stack Developer Intern

Jan 2024 May 2024 | Ludhiana, India

- Built responsive frontend with React + Tailwind
- Developed secure document upload system with AES+RSA encryption
- Created Telegram Mini-App with smart contracts and referral reward flow, boosting usage by **30%**

KEY PROJECTS

Webhook Processing System

Technologies: Node.js, Express, MongoDB, Redis

Link: [View live](#)

GitHub: [View on github](#)

- Built scalable webhook processor** handling multiple sources (GitHub, Stripe, Shopify) with Redis-backed queue architecture and priority-based routing
- Implemented 3-tier failure handling** with exponential backoff retry, dead letter queue, and automatic source disabling for reliable message processing
- Developed real-time analytics dashboard** with MongoDB aggregation pipelines displaying processing metrics, failure rates, and source-wise performance breakdowns
- Applied enterprise security features** including HMAC-SHA256 signature verification, rate limiting (100 requests/minute), payload validation, and malicious content detection.
- Engineered auto-failover system** that disables sources exceeding 80 failure threshold and provides manual retry capabilities for failed webhooks
- Optimized for production deployment** with health checks, graceful shutdown, comprehensive logging, and 5 concurrent workers for parallel processing