

Praveen Yadav

Senior Software Engineer

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Professional Summary

Senior Software Engineer with 5+ years of experience building scalable, high-concurrency backend systems. Expert in **Node.js**, **NestJS**, and **TypeScript** with proven experience designing **Event-Driven Architectures** using Kafka and Redis. Specialized in real-time communication with **WebSockets** and cloud-native development on **AWS Serverless**. Delivered high-availability products in EdTech, FinTech, and Blockchain domains.

Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript, SQL
- **Backend:** Node.js, NestJS, Express.js, Serverless (AWS Lambda)
- **Frontend:** React.js, SvelteKit
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Messaging & Real-time:** Kafka, WebSockets (Socket.io), RabbitMQ
- **Cloud & DevOps:** AWS (Lambda, S3, RDS, Cognito, CloudWatch), Docker, Git
- **Architecture:** Microservices, Distributed Systems, Event-Driven Design
- **Testing:** Jest, Vitest

Professional Experience

Senior Software Engineer

InfoBeans (Client: UPRIO School Exam App)

Aug 2024 – Present

Pune

- Built a **real-time quiz battle system** using **WebSockets** supporting peer-to-peer and bot-based competitive gameplay with sub-100ms latency for concurrent users.
- Integrated **LLM-based AI assistant** ("Study Buddy") providing automated doubt resolution and personalized learning recommendations for students.
- Designed and implemented a **gamification engine** with automated ranking logic, streak tracking, and **cron-based** point redemption/expiration workflows.
- Improved application performance through database query optimization, strategic caching, and code refactoring.

Software Engineer

VT Netzwelt (Client: YouGov/GfK)

Dec 2023 – July 2024

Mohali, India

- Rebuilt consumer-facing portals using **SvelteKit** and **AWS Lambda** in a microservices architecture, reducing page load times significantly.
- Optimized Lambda cold starts and memory allocation, cutting AWS compute costs while maintaining sub-200ms response times.
- Established testing standards using **Vitest** and **Jest**, maintaining 90%+ code coverage for critical services.

Software Engineer

Antier Solutions

Feb 2021 – Nov 2023

Mohali, India

- Architected event-driven microservices using **Node.js**, **NestJS**, and **Kafka** for fintech platforms, processing 10K+ transactions/minute with high uptime.
- Optimized **PostgreSQL** queries and implemented **Redis** caching layers, reducing API response times from 800ms to under 200ms.
- Led development of blockchain-based trading platform, mentoring junior developers and conducting root cause analysis for production incidents.

Education

R.I.E.I.T

B.E. in Electronics & Communication

Aug 2012 – Jul 2016

Punjab, India