

# Praveen Yadav

Senior Software Engineer

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 Portfolio

 GitHub

## Professional Summary

Senior Software Engineer with 5 years of experience in building scalable, high-concurrency backend systems. Expert in **Node.js, NestJS, and TypeScript** with a proven track record in designing **Event-Driven Architectures** (Kafka/Redis) and integrating **Agentic AI** solutions. Specialized in real-time communication using **WebSockets** and cloud-native development via **AWS Serverless**. Strong foundation in full-stack engineering with a focus on delivering high-availability products in EdTech, FinTech, and Blockchain domains.

## Technical Skills

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

## Professional Experience

### Senior Software Engineer

InfoBeans (*Client: UPARIO School Exam App*)

Aug 2025 – Present

Pune

- Developed a high-concurrency **Real-time Quiz Battle** engine using **WebSockets**, enabling peer-to-peer and bot-based competitive learning for 1K+ active users.
- Integrated **Agentic AI** (LLM-based) features to create a "Study Buddy," providing automated, simplified doubt resolution and personalized learning assistance for students.
- Engineered a complex **Gamification Engine** and rewards system, implementing automated ranking logic and **Cron-based** point redemption/expiration workflows.
- Architected backend services using **Serverless (AWS Lambda)**, **Express.js**, and **MongoDB**, ensuring a scalable infrastructure for peak exam-season traffic.
- Managed content delivery and dynamic app updates by integrating **Sanity CMS**, reducing content publishing cycles for school-specific exam modules.

### Software Engineer

VT Netzwerk (*Client: YouGov/GfK*)

Nov 2024 – July 2025

Mohali, India

- Modernized global consumer portals using **SvelteKit** and **AWS Lambda** within a microservices architecture, focusing on low-latency data rendering.
- Developed modular server-side utilities and optimized Lambda functions to enhance system performance and reduce cloud compute costs.
- Implemented rigorous unit and integration testing using **Vitest** and **Jest**, maintaining 90%+ code coverage for critical services.

### Software Engineer

Antier Solutions

Feb 2021 – Nov 2024

Mohali, India

- Architected event-driven microservices using **Node.js, NestJS, and Kafka** for fintech and blockchain platforms, achieving high throughput and system reliability.
- Designed and optimized **PostgreSQL** and **Redis** structures to support real-time analytics with sub-200ms response times.
- Led the delivery of 10+ full-stack blockchain projects, mentoring junior developers and conducting Root Cause Analysis (RCA) for high-priority production issues.
- Achieved a **30% reduction in load times** through aggressive code refactoring and multi-level caching strategies.

## Education

### R.I.E.I.T

B.E. in Electronics & Communication

Aug 2012 – Jul 2016

Punjab, India