

SAURABH SHARMA

Associate Principal / Staff Backend Engineer

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Associate Principal / Staff Backend Engineer & **Open-Source Gem Author** with **15+ years of experience** architecting, scaling, and optimizing fault-tolerant distributed systems and mission-critical SaaS platforms. Creator of **active_record-undo**, a published open-source Ruby gem providing transactional cascading soft-deletes and atomic restores. Deep technical expertise in **Ruby on Rails, Java, AWS, microservices, and event-driven data pipelines**. Proven track record of slashing enterprise cloud infrastructure costs, modernizing zero-downtime authentication architectures for millions of global users, and instituting engineering governance across multi-regional teams.

WORK EXPERIENCE

Bold Technologies | Monster

Aug 2025 – Present | Hybrid

Associate Principal Engineer

[Rails](#) | [React](#) | [Java](#) | [C#](#) | [AWS \(DynamoDB, SQS, ECS\)](#) | [Microservices](#) | [Swagger](#)

- **Cloud Cost & Pipeline Optimization:** Spearheaded pipeline optimization for high-volume job alert dispatches (270M+ emails/month) via audience recency tiering, cutting AWS spend by **~35%** (halving DynamoDB costs from \$5.5K to \$2.6K/mo, optimizing SQS) while reducing downstream search API load.
- **Distributed Identity Architecture:** Modernized core authentication ecosystem for Monster.com, ensuring high availability, zero-downtime secret rotations, and resilient session management.
- **Enterprise SSO Infrastructure:** Designed and delivered a secure enterprise Admin Panel for Single Sign-On client management, enabling OAuth 2.0 / Client Credentials flows and dynamic claim mapping.
- **Microservices Framework:** Led architectural decomposition of the AI job marketplace into a unified Rails and React microservices framework, boosting fault tolerance and reducing API latency.
- **Engineering Governance:** Institutionalized standardized automated testing frameworks and OpenAPI/Swagger guardrails, maintaining a **95%+ RSpec** baseline coverage.

CareerBuilder

Jun 2019 – Jul 2025 | Remote

Senior Software Engineer (Staff Scope)

[Rails](#) | [React](#) | [AWS \(ECS, RDS, SQS\)](#) | [Redis](#) | [Docker](#) | [Jenkins](#) | [RSpec](#)

- **High-Throughput E-Commerce:** Scaled distributed backend checkout services for a global ecommerce platform, sustaining **99.99% availability** during peak traffic spikes.
- **Asynchronous Message Processing:** Engineered decoupled background queue architectures with Redis and AWS SQS, eliminating transactional order bottlenecks.
- **CI/CD Modernization:** Automated deployment pipelines via Jenkins, Docker, and AWS ECS, slashing release cycle times by **>40%** with zero-downtime blue-green deployments.
- **Test Engineering:** Maintained a **95% RSpec coverage** baseline across payment gateways and mission-critical customer APIs.
- **Technical Mentorship:** Mentored engineers, authored Architecture Decision Records (ADRs), and led organizational system design reviews.

TECHNICAL SKILLS

LANGUAGES & CORE

Ruby on Rails (Gem Author: active_record-undo), Java, C#, Node.js, PHP, JavaScript, TypeScript, React, Next.js

CLOUD & SYSTEMS

AWS (ECS, DynamoDB, SQS, EC2, RDS, S3, Route53, CloudFront), Microservices, High Availability, Distributed Systems

DATABASES & MESSAGING

Redis, DynamoDB, PostgreSQL, MySQL, Apache Kafka, Distributed Caching, Schema Tuning

DEVOPS & CI/CD

Docker, Jenkins, Capistrano, Spinnaker, RSpec, TDD, CI/CD Pipelines, Cloudflare (WAF & CDN)

ARCHITECTURE & APIS

System Design, REST APIs, OAuth 2.0 / SSO, OpenAPI / Swagger, Blue-Green Deploys, ADRs

CORE COMPETENCIES

- Distributed Architecture
- Cloud Cost Engineering
- Open-Source Gem Authorship
- Zero-Downtime Migration
- Fault-Tolerant Systems
- Auth & Identity (SSO/OAuth)
- Performance Engineering

PRIOR PROFESSIONAL EXPERIENCE

4moles

Jun 2017 – May 2019 | On-site

Engineering Lead

Rails | Android | Redis | ActionCable | DigitalOcean | Cloudflare

- **Team Leadership:** Led 4 engineers across web and mobile platforms to deliver on core business KPIs.
- **Performance Engineering:** Reduced TTFB from **4s to 0.7s** and TTI from **12s to 3s** through asset pipelining and query caching.
- **Real-Time Systems:** Architected real-time booking engine with Redis and ActionCable, dropping flow latency from **~30s to ~10s** with distributed slot-locking.
- **Edge Security:** Automated DigitalOcean deployments via Capistrano and secured edge traffic via Cloudflare WAF & CDN.

Yatra Online Pvt Ltd

Aug 2014 – May 2017 | Gurgaon

Senior Engineer

Java | PHP | JavaScript | MySQL | Distributed Transactions

- **High-Volume Transaction Backends:** Engineered core high-throughput transaction backends and multi-provider aggregation services using Java and PHP.
- **Database Schema Optimization:** Optimized relational schemas and complex queries for sub-second responses on high-volume travel search engines.

Emaadhyam Online Pvt Ltd

Sep 2011 – Jul 2014 | Gurgaon

Software Engineer

Rails | PHP | Java | C# | MySQL | JavaScript

- **Multitenant Database Architecture:** Engineered multitenant database architectures on Rails, tuning query indexing for vertical scale at QBox.com.
- **Enterprise Web Platforms:** Delivered client-facing enterprise web applications across modern PHP frameworks, WordPress, and Magento.

OPEN SOURCE ENGINEERING & TOOLING

active_record-undo • Ruby Gem

[active_record-undo](#) →

Author & Core Maintainer

Ruby on Rails | ActiveRecord | Polymorphic Audit Logs | Transactional Integrity | RSpec | RuboCop | Engine

- **Transactional Cascade Soft-Deletes:** Architected a standalone Rails engine delivering cascade-aware soft deletion and atomic, single-transaction restores across deeply nested parent-child models (`has_many`, `has_one`).
- **Polymorphic Audit Trail:** Engineered an audit snapshot engine (`UndoLog` / `UndoLogItem`) tracking deletions, ambient user attribution (`Current.user`), and strict multi-tenant isolation.
- **Lifecycle & Bloat Management:** Designed configurable retention windows, expiration scopes (`#undoable?`), and automated background worker purging (`PurgeJob`) to eliminate database bloat.

EDUCATION

B.Tech in Computer Science

Guru Gobind Singh Indraprastha University (GGSIPU)

2007 – 2011 | New Delhi, India

ENGINEERING LEADERSHIP

- Technical Architecture & ADRs
- Open-Source Gem Maintenance
- Engineering Mentorship
- Cross-Functional Alignment
- Production Incident Command
- Agile / Scrum Governance
- Hiring & Code Review Standards

PRACTICES & QUALITY

- Test-Driven Development (TDD)
- 95%+ Baseline Test Coverage
- API Guardrails (OpenAPI/Swagger)
- Gem Packaging & SemVer
- Continuous Delivery (Blue-Green)
- Zero-Downtime Secret Rotation
- Security & WAF Protection