

SUMIT YADAV

Senior Software Engineer → Staff Engineer / Tech Lead

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PROFESSIONAL SUMMARY

Senior Software Engineer and Tech Lead with **7+ years of experience** designing, building, and leading high-performance cloud-native applications at enterprise scale. Currently at **Accenture** leading a **team** and providing technical leadership across multiple full-stack and microservices workstreams involving **30+ engineers**. Deep expertise in **distributed systems, AI/RAG engineering, real-time architecture, and cloud infrastructure** across AWS and Azure. Author of a technical blog with 7 published deep-dives on system design and AI engineering. Actively targeting **Staff Engineer / Tech Lead** roles with cross-team technical impact.

TECHNICAL SKILLS

Frontend & Full-Stack Development

Node.js, TypeScript, React, Next.js, JavaScript, Express.js, NestJS, GraphQL, Tailwind CSS, HTML/CSS

AI & Machine Learning

LLMs, RAG Pipelines, Vector Embeddings, Pinecone, Vercel AI SDK, Google Gemini 2.5, Prompt Engineering

Databases & Caching

PostgreSQL, MongoDB, Redis (Upstash), DynamoDB, Pinecone (Vector DB)

Cloud & Infrastructure

AWS (CloudFront, Lambda, DynamoDB, SQS, SNS, S3), Azure (Functions, App Service, DevOps, Storage), Vercel, Docker, Kubernetes, Nginx

Architecture & Distributed Systems

Distributed Systems, Microservices, System Design, Event-Driven Architecture, Kafka, WebSockets, SSE, REST, GraphQL

Leadership & Engineering Practices

Technical Leadership, Team Management, CI/CD, Code Reviews, Agile/Scrum, Performance Optimisation

PROFESSIONAL EXPERIENCE

Senior Software Engineer (Tech Lead) · Accenture Solutions Private Limited

Mumbai, India | Dec 2021 – Present

- Led a team and provided mentorship and technical guidance to a team of 30+ developers across full-stack and microservices workstreams — conducting code reviews, defining engineering standards, and driving architectural decisions for enterprise-scale applications
- Designed and delivered Node.js backend modules and REST APIs for high-traffic enterprise applications, achieving 20–30% API performance improvement through targeted caching strategies and query optimisation
- Architected and implemented Azure-based cloud solutions including Azure Functions, App Service, and Storage Accounts, integrated into CI/CD workflows via Azure DevOps pipelines
- Defined microservice architecture patterns in collaboration with solution architects — establishing deployment workflows, service boundaries, and inter-service communication contracts
- Built production AI/RAG pipelines integrating LLMs, vector embeddings, and semantic search — delivering intelligent document Q&A systems on Next.js and Vercel
- Mentored engineers in scalable design patterns, cloud-native development, security best practices, and TypeScript — consistently raising team technical standards
- **Recognition:** *Care Deeply For All Our People Award (Feb 2024) · Incredible Ownership Award (Sep 2023)*

Senior Systems Engineer · Infosys Limited

Pune, India | Sep 2021 – Dec 2021

- Worked as a Full Stack Developer delivering features across JavaScript, Node.js, and modern frontend technologies in a fast-paced enterprise environment

Software Engineer · Accenture Solutions Private Limited

Mumbai, India | Jul 2020 – Sep 2021

- Developed and maintained frontend web applications using React, JavaScript, and TypeScript — collaborating with backend teams on REST API integration and UI performance optimisation
- Contributed to component libraries, responsive design systems, and cross-browser compatibility initiatives across enterprise client projects

Assistant System Engineer · Tata Consultancy Services

Mumbai, India | Dec 2018 – Dec 2019

- Worked as a Full Stack Web Developer building and maintaining web applications, contributing to both frontend and backend development using JavaScript and Node.js
- **Recognition:** *Kudos Award for Excellent Performance (Feb 2019)*

ENGINEERING PROJECTS

AI-Powered RAG Assistant · [Live Demo](#) · [Source Code](#)

Next.js 16 · Google Gemini 2.5 · Pinecone · Vercel AI SDK · TypeScript · Upstash Redis

- End-to-end RAG pipeline — PDF ingestion, text chunking, Gemini vector embeddings, Pinecone semantic search, and real-time streaming responses with source citations
- Production-hardened with embedding cache, rate limiting (Upstash sliding window), and mock dev mode to control API costs

Real-Time Notification Engine · [Live Demo](#) · [Source Code](#)

Next.js 16 · SSE · Upstash Redis · QStash · TypeScript · Vercel Edge

- Event-driven notification system with SSE delivery, Redis persistence, and QStash fan-out across In-App, Email, and SMS channels with auto-reconnection logic

Distributed URL Shortener · [Live Demo](#) · [Source Code](#)

Next.js · Upstash Redis · Vercel Edge Functions · TypeScript

- AP-architecture URL shortener with O(1) Redis lookups, configurable TTL expiry, and click analytics deployed on Vercel Edge Functions for global low-latency redirects

TECHNICAL WRITING

Author of sumityadav-dev.vercel.app — 7 published deep-dives on distributed systems, AI engineering, and Staff-level architecture thinking including: SAGA Pattern, RAG Pipelines, Consistent Hashing, Message Queues (SQS/Kafka/SNS), Scaling Social Feeds, and Real-Time Systems.

EDUCATION

B.Tech in Computer Science and Engineering · Manipal University Jaipur

Jaipur, India | 2014 – 2018 | CGPA: 8.03 / 10

Portfolio: ysumit99.github.io | Blog: sumityadav-dev.vercel.app | *Open to Staff Engineer / Tech Lead opportunities*