DEEPAK KUMAR JHA

Technical Lead | Solution Architect

Node.js · TypeScript · NestJS · Angular · React · JavaScript · AWS · GCP · Kubernetes · Microservices · IAM & Keycloak

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Relocating to UAE — Dubai or Abu Dhabi | Degree MOFA-attested (Aug 2026) | Available within 15 days

PROFILE

Technical Lead and Solution Architect with 14 years of experience who owns architecture end to end — system design, delivery, deployment and the production support that follows — rather than handing off after the design phase. Leads engineering teams of 4 to 14 across media, telecom, fintech, life sciences and enterprise SaaS. Hands-on full-stack engineer throughout — deep Node.js, Express.js and TypeScript on the backend, 8+ years of Angular (v2–v17) and 3 years of React on the frontend — on cloud-native infrastructure across AWS and GCP. Identity and access management (Keycloak, OAuth2, OIDC, RBAC) and production Generative AI integration as supporting specialisations.

TECHNICAL SKILLS

Architecture & Leadership: Solution Architecture, System Design, Microservices, Event-Driven Systems, Multi-Tenant SaaS, End-to-End Delivery Ownership, Team Leadership (4–14 engineers), Code Review, Mentoring

Backend: Node.js, Express.js, NestJS, TypeScript, JavaScript (ES6+), REST API Design, WebSocket

Frontend: Angular (v2–v17, 8+ years), React.js (3 years), Redux, TypeScript, HTML5, CSS3/SCSS, Material UI, Ionic

Cloud & DevOps: AWS (EC2, ECS, Lambda, S3, RDS, CloudFront, IAM, CloudWatch), GCP (Cloud Run, Cloud Functions), Docker, Kubernetes, CI/CD (GitHub Actions, GitLab CI, Jenkins)

Identity & Security: Keycloak (multi-realm design and customisation), OAuth2, OIDC, JWT, RBAC across APIs, token and cookie handling, API access review, GDPR and WCAG 2.0 delivery practice

Databases & Caching: PostgreSQL, MongoDB, MySQL, Redis, Elasticsearch, Prisma ORM, Mongoose, Caching & Performance Engineering

AI Integration: RAG pipelines, LLM integration (Gemini, OpenAI, Claude APIs), self-hosted inference (Ollama — Llama 3, Mistral), multi-model routing, Model Context Protocol (MCP), vector embeddings and semantic search

Live Demos: rag.build-with-deepak.com (privacy-first RAG) · agent.build-with-deepak.com (MCP agent) · router.build-with-deepak.com (multi-model routing)

PROFESSIONAL EXPERIENCE

SmartSitting — Childcare Placement Marketplace | New York (Remote) | **Dec 2025 – Present**
Technical Lead

- Own the full technical stack end to end — web app, admin platform, candidate and institution onboarding, mobile app and GCP infrastructure — built from zero, leading a team of 4–5 engineers.
- Architected the platform's AI layer: a self-hosted RAG pipeline on Ollama (Llama 3, Mistral) for privacy-first semantic search across candidate, job and family data, plus Gemini-backed conversational support — contributing to 3x growth in weekly candidate applications.
- Built a multi-model routing layer directing each request between local inference and cloud models on cost, latency and data sensitivity, and MCP-based agentic workflows connecting models to internal services.
- Run GCP infrastructure end to end: CI/CD and zero-downtime deployments via GitHub Actions, Docker and Cloud Run, plus domain, email and payment gateway integration.

Indegene Limited (NASDAQ: INGN) — Life Sciences Technology | India | **Feb 2025 – Dec 2025**
Solution Architect

- Led 12–14 engineers migrating a legacy React application to a modern architecture and decomposing a monolith into microservices.
- Cut API response times from 10–40 seconds to 5–7 seconds and eliminated recurring weekly server crashes.
- Parallelised high-volume data processing with cron-based batch jobs, reducing runtime from roughly 60 minutes to 20–30 minutes.
- Delivered a Keycloak-based identity project covering realm configuration and role-based access across services.

Toppan Merrill LLC — Financial Data & Regulatory Compliance | India | **Apr 2024 – Feb 2025**
Technical Analyst

- Delivered enterprise compliance portals for financial, legal and healthcare clients across North America, Europe and APAC using Node.js, Angular 17 and GCP.
- Led backend architecture decisions within a team of 6–8 engineers, defining API standards and data governance patterns for regulated, multi-jurisdictional workloads.
- Designed audit-ready data models with lineage tracking in Prisma ORM.

Radisys Technology (Reliance) — Deutsche Telekom Partner — Telecom & IoT | India | **Oct 2021 – Apr 2024**
Tech Lead / Solution Engineer

- Led interface engineering for DT Access 4.0, Deutsche Telekom's carrier-grade network operations platform, managing 8–10 engineers within a 300-person global programme (Node.js, React, Kubernetes, PostgreSQL).
- Designed and customised multiple Keycloak realms over two-plus years, covering OAuth2/OIDC flows, role-based access across APIs and developer-side security review.
- Engineered high-throughput IoT data pipelines for Smart Home applications, processing concurrent event streams from security cameras, gateways and geofencing devices.
- Established engineering standards and mentored the team on code quality and architecture patterns.

HT Media Ltd. (Hindustan Times) — High-Traffic Digital Media | New Delhi | **Nov 2018 – Sep 2021**
Associate Architect / Tech Lead

- Architected and scaled backend services for LiveHindustan.com to 60M+ monthly users, holding stable through election results, cricket finals and national breaking news.
- Consolidated the AWS server fleet from 16 servers to 4 at the same traffic load through caching, log management and load distribution.
- Designed CDN + Redis + Elasticsearch caching, cutting API response times from 400–600ms to sub-100ms under peak load.
- Directed greenfield development of the Hindustan Smart City platform — architecture, API standards and deployment pipelines from day one; managed a team of 5 backend engineers.

Publicis Sapient (SapientRazorfish) — Digital Agency — Fortune 500 Clients | Gurgaon | **Jun 2017 – Nov 2018**
Senior Associate — Full Stack

- Re-architected Bed Bath & Beyond's legacy backend to support a React/Redux SPA within a 10–12 person full-stack team (Angular, PostgreSQL, Node.js).
- Shipped cart, promotions and checkout features for The Children's Place hybrid mobile app; established code review standards and deployment pipelines.

NTT DATA Global Delivery Services — Enterprise IT Services | Gurgaon | **Jan 2016 – Jun 2017**
Senior Software Developer

- Delivered Hanover Insurance's mobile application end to end using Angular 2 and Ionic, from architecture through production release.
- Built reusable UI component systems for Honeywell Partner Connect and NTT Security enterprise platforms.
- Avalon Information Systems — JavaScript Developer, New Delhi | Feb 2013 – Jan 2016 — Built hybrid iOS and Android applications and census/geospatial visualisation dashboards (Ionic, AngularJS, Highcharts).
- UST Global — Software Developer, Bengaluru | Jun 2011 – Feb 2013 — Built the plant management interface for GE Water & Power, including data-driven charting for iOS.

EDUCATION

Bachelor of Engineering — Electrical and Electronics Engineering
Cochin University of Science and Technology, 2011 · First Class
Degree attested by UAE Ministry of Foreign Affairs (August 2026) — ready for work-permit submission, no onboarding delay.