VISHAL LAD (Software Architect & hands-on Full Stack Engineer)

Software Architect with 18+ years of experience designing scalable, cloud-native, and AI-enabled enterprise platforms. Proven track record leading architecture strategy, modernizing legacy systems, and delivering secure, high-performance solutions on Azure and GCP. Hands-on leader with deep expertise in Micro-Frontends, distributed systems, and **production-grade Generative AI (RAG) implementations**. Passionate about building reliable, maintainable systems and enabling engineering teams to deliver faster with quality.

Target Roles: Software Architect • Principal Architect • Platform Architect • Technical Architect

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KEY HIGHLIGHTS

- Led architecture and delivery of micro-frontend platforms used by multiple distributed teams.
- Designed and implemented Generative-AI (RAG) search capabilities on OSDU, improving discoverability and user insight.
- Defined coding standards, code-review processes, and branching strategies that improved release quality and collaboration.
- Delivered scalable, cloud-native solutions on Azure and GCP, ensuring resilience and performance.
- Partnered with product, architecture, and engineering teams to align technology with business outcomes.
- Mentored developers and guided teams toward clean architecture, testing discipline, and continuous improvement.

CORE SKILLS

Architecture: Micro-Frontends, SPA architecture, API design, CI/CD, Scalable UI systems
Frontend: Angular, React, Typescript
Backend: Node.js, Java Spring Boot, NestJS
Cloud: Microsoft Azure, Google Cloud Platform
GenAI: RAG, LangChain, Vector DB (Milvus), LLM integrations
Testing & Quality: Jest, Jasmine/Karma, SonarQube, Performance optimization
Tools: Git, Webpack, Sentry, Docker, DevOps workflows improve

EXPERIENCE SUMMARY

Software Architect at SLB Pune Technology Center (Oct 2025 till present)
Technical Lead at SLB Pune Technology Center (2022 - till Sept 2025)
Front-End Architect at Accenture Solutions Pvt Ltd, Pune (Aug 2016 to 2019).
Senior Technical Lead at Tieto Technologies Services, Pune (Oct 2014 to Aug 2016)
Team Lead at Accenture Services Pvt Ltd, Pune (May 2010 to Sept 2014).
Flex developer at Idhasoft Company, Mumbai (Jan 2010 to April 2010).

PROJECT HIGHLIGHTS

Tela for Data Workspace – Technical Lead/Software Architect (*2022- present*)

Enterprise-grade GenAI conversational platform for natural-language access to large-scale subsurface and geoscience dataArchitected and led the end-to-end design of a production-scale conversational AI system, embedded directly within the enterprise Data Workspace.

- Architected and led the end-to-end design of a production-scale conversational AI system, embedded directly within the enterprise Data Workspace.
- Designed a high-throughput, fault-tolerant vectorization pipeline to ingest and index large volumes of structured and unstructured domain data.
- Built RAG architectures with explicit grounding, safety guardrails, and prompt-orchestration layers to improve factuality, controllability, and trust.
- Integrated vector search and hybrid retrieval to deliver context-aware responses across heterogeneous data sources.
- Designed RAG-enabled structured search over OSDU data models, bridging classical query systems with GenAI workflows.
- Developed memory-aware, agentic components to maintain conversational context and support multi-step reasoning.
- Partnered with UX teams and domain SMEs to translate complex business workflows into intuitive conversational experiences.
- Drove latency optimization, observability, and fail-safe mechanisms to meet enterprise production SLAs.
- Impact: Enabled users to query complex datasets without navigating dashboards — improving discovery speed and usability.

Tech: LangChain, Langgraph LLMs, Milvus, Python, NestJS, Angular, Azure, Kafka, Java, Dataiku

Lumi Data Workspace – Technical Architect (*Jan-2020 - present*)

Enterprise subsurface data platform aligned with OSDU standards and enhanced with AI-driven discovery.

- Designed Discover workflows and implemented **RAG-based search capabilities** for contextual data exploration.
- Authored technical designs and architectural documentation used across multiple teams.
- Established coding guidelines, review processes, and branching strategies to standardize development.
- Championed test automation, performance validation, and release quality improvements.
- Mentored developers and coordinated efforts across product, backend, and platform teams.

Tech: Angular, Typescript, Micro-Frontends, Spring Boot, NestJS

Digital Transformation Program – Web & KIOSK (*Sept-2018 to present*)
Front-End Technical Architect | Large Restaurant Chain
- Assessed legacy systems and created modernization roadmap.
- Standardized coding guidelines, review practices, and CI/CD workflows.
- Led migration strategy to Redux + Webpack, improving maintainability and release cadence.
- Supported teams in defect resolution and delivery acceleration.

Tech: React, Redux, NW.js, Jest, Enzyme, Webpack

VOF Dashboard *(July-2018 to Dec-2018)*
Front-End Lead | Oil & Gas
- Designed UI architecture for high-volume datasets.
- Resolved performance bottlenecks and improved load responsiveness.
- Introduced Angular + Redux setup and static analysis rules.

Tech: Angular, ngrx, Observables, Chart.js, Jasmine/Karma

C2C_Digital_Platform (*Aug-2017 to June-2018*)
- Front-End Lead | Large Car Rental Company
- Acted as offshore technical architect and lead Front-end development offshore team.
- Assists the architect in articulating the pros and cons of using a certain technology stack or component or design pattern.
- Ensure the technical feasibility of UI/UX designs and provide technical solutions.
- Drive re-design, and refactoring for a module to ensure good code quality.
- Driven setting up pa11y for accessibility testing and fixing the same.

Tech: Angular4+TypeScript, ngrx/store, Redux, AEM, Jasmin with Karma, prerender.io for SEO, pa11y for Web Accessibility.

EDUCATION

B.E. Computer | 2007 | First Class
G.H Patel College of Engineering and Technology
PGP in Cloud Computing (4.27 Grade) – Great Lakes Institute (https://www.mygreatlearning.com/certificate/AKSJFJXK)
Executive Post Graduate Certification Program in Data Science and Artificial Intelligence from iHUB at IIT Roorkee
(https://tih.iitr.ac.in/certificate/intellipaat/IPTIH25070879.jpg)

CONTRIBUTIONS & ACHIEVEMENTS

O2 Award Nov 2024 (SLB)
O2 Award Sept 2022 (SLB)
Accenture Certified Technology Architect
Conducted Global Webinar on Micro-Frond Ends (Accenture)
ACE Award in Feb 2019 (Accenture)
ACE Award in Feb 2017 (Accenture)
ACE Award in Feb 2013 (Accenture)
Explorer award in 2008 (V2 Solutions)

FUN FACTS

I like to play guitar during my free time and continue to practice it when I am in no coding zone.
Won Table Tennis championship at University Level