Shishupal Kumar

**Senior Solution Architect | Azure, .NET, AI/ML, Generative AI**

**Mobile** +91 9731724632 | **Email** Shishupalk@yahoo.co.in | Bengaluru, India

## Professional Summary

Vision-driven and result-oriented Senior Solution Architect with over 20 years of progressive experience in enterprise application architecture, microservices, and cloud-native solutions using Microsoft technologies, Azure, and cutting-edge AI/ML, and Generative AI integrations. Adept at transforming monolithic systems to scalable microservices architectures and leading the end-to-end solution lifecycle from presales and consulting to delivery and optimization. Expert in applying architectural and design patterns to improve scalability, security, and maintainability.

## Architecture & Design Expertise

- Architecture Patterns: Microservices, Event-driven, Layered, Serverless, Clean Architecture, DDD  
- Design Patterns: Repository, Unit of Work, CQRS, Factory, Singleton, Dependency Injection, Saga  
- Solution Architecture: Multi-tenant systems, Hybrid cloud, API-first, High availability systems  
- Technical Decisioning: Architecture assessments, RFPs, TCO analysis, Build-vs-Buy evaluations  
- Documentation: HLD, LLD, System Diagrams, API Contracts, Sequence/Class Diagrams, Azure Blueprints

## Core Competencies

- Cloud & DevOps: Azure App Services, Functions, AKS, API Management, Azure AD B2C, Logic Apps  
- Backend: .NET 6/7/8 Web API, C#, MediatR, Entity Framework Core, REST, GraphQL, gRPC  
- Frontend: React, Angular, TypeScript, Redux, Material UI, SPA, Sitecore CMS  
- Data: SQL Server, PostgreSQL, Cosmos DB, Redis, Kafka, Azure Service Bus  
- Security: OAuth2, JWT, OpenID Connect, RBAC, Key Vault, API Gateway  
- AI/ML & Gen AI: Azure AI, OpenAI, Scikit-learn, LangChain, Prompt Engineering, ChatGPT API

## Professional Experience

Tata Elxsi – Senior Solution Architect (Aug 2024 – Present)  
- Delivered Azure-native Portal Submission System using React, ASP.NET Core APIs, and PostgreSQL.  
- Integrated Azure OpenAI for Gen AI-based content validation and intelligent recommendations.  
- Led identity strategy using Azure AD B2C and secure JWT-based microservices.  
- Delivered full architectural documentation (HLD, LLD, deployment and security models).  
  
Persistent Systems – Senior Technical Architect (Jul 2022 – Nov 2023)  
- Architected scalable iPaaS solution integrating SAP, Salesforce, and Sitecore via Logic Apps.  
- Introduced CQRS + Event Sourcing for real-time processing.  
- Designed CI/CD pipelines with Azure DevOps, monitored with App Insights and Log Analytics.  
  
HCL, Visionet, Sapient – Solution Architect / Technical Lead (2011 – 2022)  
- Designed enterprise systems for Insurance, Retail, and Telecom clients.  
- Implemented DDD, Unit of Work, CQRS with multi-tenant support.  
- Delivered large-scale web apps using .NET, Sitecore, SignalR, and RESTful APIs.

## Architecture Responsibilities & Deliverables

- Defined transition architectures and modernization roadmaps.  
- Implemented secure API Gateways with Azure AD & OAuth2.  
- Led Azure landing zones and Infrastructure-as-Code using Bicep/Terraform.  
- Established reusable design assets and enforced solution architecture governance.

## AI/ML & Gen AI Initiatives

- Built ML models for churn prediction using Python (RandomForest, LogisticRegression, etc.).  
- Integrated Azure OpenAI for Gen AI-driven approval assistants.  
- Designed Gen AI content generation for user reports and automated notifications.  
- Used LangChain for vector search and intelligent recommendations.

## Education & Certifications

- MCA – PES College of Engineering, Mandya  
- PGP - Data Science & Business Analytics – Great Learning (UT Austin Faculty)

- **Certifications:**

-TOGAF 10 (In Progress)  
 - Azure Solutions Architect Expert (Microsoft)-In Progress  
 - DevOps & Cloud – IIT Guwahati  
 - Sitecore, DocuSign, Unqork

## Awards & Recognition

- Client Appreciation Awards (Citi Bank, Tesco, ARM, Multichoice)  
- Gen AI Innovation Award for enterprise workflow automation  
- Best Performing Solution Architect (3x consecutive quarters)

## LinkedIn & Portfolio

* LinkedIn: <https://www.linkedin.com/in/shishupal-kumar-540a6421/>
* GitHub: <https://github.com/Shishu123>
* Credly: <https://www.credly.com/badges/3ee29cb3-5f66-4ef4-86bd-dbf5d1442724>
* Certificate in Data Science from Texas and Great Learning :
* [Great Learning](https://olympus1.mygreatlearning.com/certificate/UVULCWKV): Texas :https://www.linkedin.com/in/shishupal-kumar-540a6421/details/education/771185941/multiple-media-viewer/?profileId=ACoAAASbDAABP4iYMECABSCAsprt90CDHdEfSFA&treasuryMediaId=1635502511222