

# SANDEEP KUMAR

Senior Full Stack Developer | Solution Architect | 14+ Years Experience

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**Performance-driven Senior Developer** with 14+ years of experience architecting and optimizing enterprise-scale systems. Proven track record of **reducing infrastructure costs by 25%** while **improving performance by 60%** for systems handling **100K+ daily requests**. Expert in full-stack development, cloud architecture, and DevOps practices with **AI-enhanced productivity** delivering **25% faster development cycles**.

## TECHNOLOGY STACK

Category	Technologies
Programming Languages	C#, Node, JavaScript, Python, SQL,
Core Frameworks	.NET Core 6/7/8/9, ASP.NET Core, Entity Framework Core, Blazor, SignalR
Web Technologies	ASP.NET Core Web API, MVC, Razor Pages, RESTful APIs, GraphQL, FastAPI
Frontend Frameworks	React, Angular 15+, Blazor Server/WebAssembly, Material-UI, Bootstrap
Azure Cloud Services	App Service, Azure Functions, Service Bus, Event Grid, Key Vault, Application Insights, Container Instances
Database Technologies	SQL Server, Azure SQL Database, PostgreSQL, MySQL, MongoDB, Redis, Entity Framework Core, Dapper
DevOps & CI/CD	Azure DevOps, Azure Pipelines, Docker, Kubernetes, ARM Templates, Infrastructure as Code (IaC)
Development Tools	Visual Studio 2022, VS Code, Git, GitHub, Swagger/OpenAPI, Postman, Cursor, Continue
Architecture Patterns	Clean Architecture, CQRS, Repository Pattern, Dependency Injection, Microservices, Multi-tenant
Performance & Caching	Redis Caching, In-Memory Caching, Query Optimization, Auto-scaling, Load Balancing
AI-Enhanced Development	ChatGPT, Claude, Cursor AI, Continue, GitHub Copilot, AI-assisted code review and optimization

## TECHNOLOGY EXPERTISE & PROJECT DISTRIBUTION

Technology	Projects	Repository/Project Names	Expertise Level
C# / .NET	5 Projects	ToursAndActivities, RebookingEngine, PMS, Railway IPIS, Development Tools	★★★★★ Expert
SQL Server / MySQL	5 Projects	ToursAndActivities, RebookingEngine, PMS, Railway IPIS, Logistics System	★★★★★ Expert
JavaScript/Node.js	3 Projects	Logistics System, Lumora Resort, DigispinWeb	★★★ Intermediate
React/Next.js	2 Projects	Lumora Resort, Logistics System	★★★ Intermediate
Vue.js/Nuxt.js	2 Projects	RebookingAtLowerCostEngine, DigispinWeb Platform	★★★ Intermediate
Angular	1 Project	Property Management System (PMS)	★★★ Intermediate
Python	1 Project	Zerodha Trading Platform	★★ Basic
Azure	5 Projects	ToursAndActivities, RebookingEngine, PMS, DigispinWeb, Azure IaC	★★★★ Advanced
AWS	2 Projects	Channel Connector (Lambda, S3, EC2), Amazon Selling Partner API Integration	★★★ Intermediate
Redis	2 Projects	ToursAndActivities, RebookingAtLowerCostEngine	★★★★ Advanced

## PROFESSIONAL EXPERIENCE

### Senior Architect

Dec 2022 - Present

#### Digispin Tech

*Technologies: .NET Core 6/7/8, Node, Python, Azure App Services, Azure Functions, Azure DevOps, Docker, Kubernetes, React, SQL Server, Redis*

- **Solution Architecture:** Designed and implemented scalable microservices architecture for enterprise travel booking platform handling **100K+ daily requests** with 99.9% uptime
- **Azure Cloud Leadership:** Led cloud migration strategy reducing infrastructure costs by **25%** through Azure App Services, auto-scaling policies, and reserved instances
- **DevOps Excellence:** Established CI/CD pipelines using Azure DevOps and Docker, reducing deployment time from **4 hours to 15 minutes**
- **Full-Stack Development:** Architected end-to-end solutions using .NET Core APIs, React frontend, and Azure SQL Database with Redis caching layer
- **Performance Optimization:** Achieved **75% API response time improvement** (2000ms to 500ms) through parallel processing and caching strategies
- **Team Leadership:** Led cross-functional team of 15 developers, delivering 5 high-visibility projects with **20% increase in client satisfaction**
- **Innovation Implementation:** Spearheaded adoption of Infrastructure as Code (IaC) and sustainable development practices, leading to significant cost savings

### Senior Software Engineer

Jun 2017 - Nov 2022

#### Isango India Private Limited

*Technologies: C#, Node, Python, .NET Framework/Core, SQL Server, SSRS, MVC, Web API, Angular, JavaScript*

- **Enterprise Development:** Developed and maintained large-scale travel and tourism applications serving international markets
- **Database Optimization:** Designed complex SQL Server databases with advanced stored procedures and SSRS reporting solutions
- **API Development:** Built robust RESTful Web APIs for third-party integrations and mobile applications

- **Frontend Leadership:** Led frontend development using Angular and modern JavaScript frameworks
- **Research & Development:** Conducted technical analysis and R&D for new feature implementations and system improvements
- **Code Quality:** Implemented best practices for code review, testing, and documentation across development teams

## Software Engineer

May 2016 - Aug 2016

Quark Technet Pvt. Ltd

*Technologies: C#, .NET, SQL Server, WCF, MVC, SSIS, SSRS, TFS, SCOM, AngularJS, jQuery*

- **Full-Stack Development:** Developed enterprise applications using .NET technologies with 5+ years of hands-on experience
- **Integration Services:** Implemented SSIS packages for data integration and ETL processes
- **Service Architecture:** Built WCF services for distributed application architecture
- **Frontend Development:** Created responsive web interfaces using AngularJS and jQuery
- **DevOps Tools:** Utilized TFS for version control and SCOM for system monitoring and operations management

## Software Engineer

Jul 2014 - Apr 2016

Condeco Software Pvt. Ltd.

*Technologies: C#, .NET Framework, SQL Server, ASP.NET, Web Services*

- **Application Development:** Developed and maintained business applications using .NET Framework and SQL Server
- **Web Services:** Created SOAP-based web services for system integrations
- **Database Design:** Designed normalized database schemas and optimized query performance
- **Quality Assurance:** Implemented unit testing and code quality standards

## Software Engineer (GDS Application Development)

Jun 2011 - Jul 2014

Interglobe Technology Quotient

*Technologies: C#, .NET Framework, SQL Server, GDS Systems, Travel Domain*

- **GDS Integration:** Specialized in Global Distribution System (GDS) application development for travel industry
- **Travel Domain Expertise:** Developed booking engines and reservation systems for airline and travel companies
- **System Integration:** Integrated multiple GDS providers (Amadeus, Sabre, Galileo) for comprehensive travel solutions
- **Performance Optimization:** Optimized real-time booking systems for high-volume transaction processing

## RECENT PROJECT PORTFOLIO (2023-2024)

### Enterprise Travel Booking Platform

*Lead Architect & Developer*

*Technologies: .NET core 6/8/9, Python, Azure App Services, SQL Server, Redis, React, SignalR, (Azure and Render)*

*Scale: 100K+ daily requests, 20+ supplier integrations, 99.9% uptime*

- **Performance Optimization:** Reduced API response times from 2000ms to 500ms (**75% improvement**) by implementing parallel supplier API calls and Redis caching layer
- **Cost Engineering:** Achieved **30% Azure infrastructure cost reduction** through auto-scaling policies, reserved instances, and database query optimization

- **Architecture Design:** Implemented fault-tolerant microservices with circuit breaker patterns, handling supplier API failures gracefully
- **Scalability Achievement:** Enabled platform to handle **3x traffic growth** during peak booking periods without additional infrastructure

## Multi-Marketplace Logistics Platform

Senior Full Stack Developer

Technologies: Node.js, Python, React, MySQL, Docker, Azure DevOps, AWS lambda , S3 and EC2, Render

Scale: 8+ marketplace integrations, 10K+ daily product synchronizations

- **Concurrency Mastery:** Implemented multithreading solution processing **10,000+ operations simultaneously** with zero data loss
- **Database Optimization:** Achieved **80% query performance improvement** through advanced indexing and connection pooling
- **DevOps Excellence:** Built CI/CD pipeline reducing deployment time from **4 hours to 15 minutes**
- **Integration Complexity:** Synchronized inventory across Amazon, Shopify, eBay, and 5+ other marketplaces in real-time
- **AI-Enhanced Development:** Leveraged ChatGPT and Cursor for rapid prototyping, reducing initial development time by **60%**

## Production Management System (PMS)

Technical Lead

Technologies: Azure Functions, .NET Core 7, Angular 16, SQL Server, Azure Service Bus, Azure Storage

Scale: Complete ERP for leather factories - belts, rexine, shoes, bags manufacturing

- **Serverless Architecture:** Designed event-driven production system using Azure Functions for real-time manufacturing process monitoring
- **Performance Optimization:** Reduced production data processing times by **75%** through Azure Functions auto-scaling and strategic caching
- **Event-Driven Processing:** Implemented Azure Service Bus for asynchronous production workflow management and equipment status updates
- **Multi-Tenant Design:** Built scalable multi-tenant architecture supporting unlimited production facility additions without code changes
- **Infrastructure Automation:** Implemented Infrastructure as Code (IaC) with automated Azure Functions deployments across 3 environments
- **Security & Access Control:** Implemented role-based access control, audit logging, and secure production data handling
- **AI-Powered Development:** Utilized Claude and Continue for complex production algorithm optimization and automated code review

## Financial Analytics Platform

Backend Developer

Technologies: Python, FastAPI, PostgreSQL, Redis, Docker

Scale: Real-time market data processing, portfolio analytics

- **Backend Development:** Built high-performance Python APIs using FastAPI for real-time financial data processing
- **Data Processing:** Implemented efficient algorithms for handling large financial datasets and portfolio calculations
- **API Integration:** Developed RESTful services for trading data aggregation and third-party financial API integration
- **Performance Optimization:** Optimized Python code for CPU-intensive calculations achieving **50% faster processing**
- **Caching Strategy:** Implemented Redis caching for frequently accessed market data reducing API response times by **40%**

## EDUCATION

### Master of Computer Applications (MCA)

Guru Gobind Singh Indraprastha University (GGSIU), Delhi | 2011

## **Bachelor of Computer Applications (BCA)**

Maharishi Dayanand University (MDU), Rohtak | 2005

## **Professional Development**

Continuous learning in cloud technologies, performance optimization, AI-assisted development, and modern software architecture