

# Nitesh Kumar

▪ Certified Azure Architect with Specialization in AI and IoT

## Contact

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## About

Experienced Microsoft professional enthusiastic about technology, specializing in solving complex issues and architecting scalable, secure, and universally available distributed systems.

## Work Experience

Company Name	Location	Designation	Timeline
TCS	Hyderabad	Associate Consultant	Dec-2023 to Present
Microsoft	Hyderabad	Senior Consultant	Jul-2018 to Nov-2023
Bold Technology (A Product Company)	Noida	Technical Lead	Jun-2015 to Apr-2018
Aristocrat Gaming (A Product Company)	Noida	Engineer II	Oct-2013 to May-2015
Infosys Limited	Bengaluru	Senior System Engineer	Jun-2010 to Sep-2013

## Skills

Microsoft Azure Azure PaaS Data Structures C# .Net Core Microservices	Azure Functions Azure Cosmos DB Algorithms Angular React Containerization	Azure Open AI (Gen AI) Azure DevOps System Design Asp.Net MVC Web API Event Driven Architecture	Azure Service Bus Azure IoT Design Patterns MS SQL Server Serverless Computing
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## Achievements

<b>Award</b>	ICC Award for Mar'22 and LED Champions for H2'21 at Microsoft 2 Spot Awards and 2 Winning Ways at Aristocrat Technologies Spot Award for Q3'2012 in Infosys
<b>Certification</b>	Microsoft's AI Odyssey Challenge Microsoft Certified: Azure Solutions Architect (AZ-303 + AZ-304) Microsoft Certified: Azure Developer Associate (AZ-204) Microsoft Certified: Azure DevOps Engineer Expert (AZ-400) Microsoft Certified: Azure IoT Developer Specialty (AZ-220) Microsoft Certified: Azure AI Engineer Associate (AI-102) Microsoft Certified: Azure Cosmos DB Developer Specialty (DP-420)
<b>Published IPs</b>	Azure IoT Edge Module Deployment in Microsoft Blob Storage Operations Service in Microsoft
<b>Scholastic</b>	Achieved a GATE percentile score of 96.83

## Education

University/Board	Course	Institute
GGSIPU	B. Tech	Maharaja Agrasen Institute of Technology, Delhi
CBSE	Senior Secondary	Delhi Public School, Mathura Road, New Delhi

### TCS Projects (Client – London Stock Exchange Group, Role – Solution Architect)

- Led the optimization of Amazon Redshift queries, resulting in a notable 60% improvement in overall database performance.

**Technologies:** AWS RedShift, Tornado, Vectorwise, Azure PaaS, Azure Open AI, Multithreading

### Microsoft Projects

- Implemented Enterprise Search using Prompt Engineering which makes use of Semantic Kernel and harnessed Semantic Search and vector embedding capabilities of Cognitive Search to enhance information retrieval and analysis.
- Designed and implemented Managed Identity, accelerating authentication performance for Azure Storage Account and Cosmos DB by 25%.
- Pioneered the creation of 100+ Car Services in the Microsoft Connected Vehicle Platform, leading to improved experience for 5 million registered cars. The platform efficiently handled a high volume of 50 billion messages per month.
- Created an architecture for synchronizing Azure Budget's data between cross cloud environments resulting in a 30% reduction in data synchronization time.
- Designed the digital platform architecture and user interface, leading to a 50% increase in the innovation pipeline for Independent Software Vendors (ISVs) and fostering a thriving IoT edge computing developer ecosystem.

**Technologies:** OpenAI, Generative AI, Prompt Engineering, Semantic Kernel, Azure Cognitive Search, Service Fabric, Azure Monitor, Managed Identity, API Management, Azure IoT, IoT Edge

### Other Important Projects

- Engineered an innovative search algorithm that empowered users to efficiently filter and discover job postings based on location, industry, and experience level. This contributed to a substantial 30% increase in user engagement, elevating overall user experience.
- Developed a robust, scalable job feed processing system that consistently handles over 1 million job listings daily with exceptional fault tolerance and reliability.
- Developed a background batch processing job that automated the posting of player ratings, processing over 10,000 records per hour, resulting in an 80% reduction in manual effort.
- Designed and developed an application to create and update checksums for all accounts and transactions, providing a crucial function in ensuring data integrity.
- Pioneered a responsive and automated Dashboard, leading to a 20% increase in data accessibility, empowering stakeholders to make informed data-driven decisions.

**Technologies:** .Net Core, Azure PaaS, Microservices, Serverless Computing, OAuth, Solr, Angular, .Net Framework 4.5, MVC, Web API, SOAP, Identity Server, Angular, SQL Server, Net Framework, Asp.Net, WCF, Entity Framework, LINQ, HTML/CSS, JavaScript