



RAJESH KUMAR VERMA

SENIOR TECHNOLOGY ARCHITECT

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Strategically focused Senior Technology Architect with 30 years of experience in cutting-edge technologies such as A.I., M.L., Generative AI, Prompt Engineering, LLM, D.L., Data Science, Cloud Computing, SOA, BPM, and SDLC. Seeking to leverage expertise in delivering innovative solutions in diverse domains.

Education

- Ph.D. In CSE – AI and Cloud Computing area, from BPUT, Odisha, India)
- Master in Technology (Artificial Intelligence & Robotics), University of Hyderabad, India
- B.Tech. (Comp Science and Engineering NERIST, NEHU in 1992

Core Competencies

Artificial Intelligence Strategy

Gen AI, LLM

AWS Gen AI, Microsoft Gen AI

Google Gen AI

Prompt Engineering

Cloud Infrastructure

Business Process Modeling

RESTful API Development

IBM WebSphere Administration

Web Services Integration

Machine Learning Algorithms

Deep Learning Architectures

Innovation Management

Technical Skills

Analytical

Collaborator

Planner

Communicator

Decisive

Profile Summary

- Dynamic and results-oriented professional with a proven track record in spearheading Artificial Intelligence (A.I.), Machine Learning (M.L.), Deep Learning (D.L.), and Architecture and Cloud initiatives.
- Proficiency in **Artificial Intelligence, Machine Learning, Deep Learning, Generative AI / Large Language Models (LLM) and Prompt Engineering and Python.**
- Expert in **designing and developing deep neural networks** for various applications such as image recognition, natural language processing, and speech recognition.
- Notable success in **evaluating new technologies, frameworks, and tools** to determine their suitability for adoption within the organization's technical stack.
- Proven success in **architecting and training neural networks** for tasks including image recognition, natural language processing, and predictive analytics.
- Experienced in **crafting solutions that seamlessly integrate** with existing infrastructures while accommodating future growth and technological advancements.
- Distinction in leveraging **AI, ML, and DL technologies** to drive business innovation and optimize processes, with a strong foundation in strategic planning and technology integration.
- Strong background in **executing successful client PoC's and demos**, with a background in software engineering concepts and Six Sigma methodologies.
- Skilled in **architecting cloud-native solutions** and implementing best practices for security, scalability, and compliance.
- Expertise in **implementing cloud-native architectures** and best practices for containerization, microservices, and serverless computing.
- Model Development:** Designed, developed, and implemented machine learning models to address specific business problems or tasks. This involves selecting appropriate algorithms, feature engineering, and model architecture design.

Career Timeline

1994 -96



1996 -15



Since 2015



Work Experience

Jun'15 – Present| Infosys Limited | Senior Technology Architect

Key Result Areas:

- Spearheading numerous A.I. projects across sectors such as Manufacturing, Retail, and Telecom.
- Designing scalable, secure, and reliable software architectures that meet the current and future needs of the organization.
- Playing a pivotal role in driving the implementation and enhancement of Infosys Infrastructure Management Solution Suite (IIMSS), an A.I.-based product, for various client Proof of Concepts (PoCs) and demonstrations.
- Administering client visits and product showcases for prominent companies like Syngenta, BoA, and ConAgra.
- Managing the Incubation team, overseeing client PoCs and demonstrations for both internal and external stakeholders.
- Assessing and improving existing systems and processes, incorporating feedback from stakeholders and lessons learned from past projects to drive innovation and efficiency.

Certifications



TOGAF 9 Certified



IBM SOA Solution Designer Certified



IBM – WebSphere Business Modeler Certified



PMP Certified



Six Sigma Green Belt Certified (done Six Sigma Project at General Electric, USA)



Conducted A.I. / M.L. for the Team / ETA - ABCD Training sessions



Attended NIA training for 10 days

Previous Experience

Mar'96 – May'15| TATA Consultancy Services | Consultant
Jan'94 – Mar'96| INTERGRAPH (India) Pvt. Ltd | Software Engineer

Technical Skills

Application/ DB Platforms
SOA

Integration Services

Messaging Platforms

Cloud

AI / Machine Learning & DL, Generative AI

HTML, JSP, Postgres, Java

Web Services, REST

IBM WebSphere, Oracle SB

IBM MQ

AWS, MS-Azure, Oracle Cloud

Python, R, Weka, Gemini & ChatGPT

Research Papers

Research Papers: “CQS: A Conflict-free Query Scheduling in Wireless Sensor Networks” The 3rd International Conference on Recent Advances in Information Technology (RAIT-2016), ISM Dhanbad, India (Accepted)

“**DCQSH:** Dynamic Conflict-free Query Scheduling in Heterogeneous Wireless Sensor Networks” The 3 rd International Conference on Electronics, Computer and Communication (ICECS-2016) (Accepted)

“**M2C:** An Energy Efficient Mechanism for Computation in Mobile Cloud Computing”, International Conference on Advanced Computing and Intelligent Engineering (ICACIE-2016) (Accepted)

MCC and Big Data Integration for Various Technological Frameworks (ICACIE-2017) (Accepted)

Smart HIV/AIDS Digital System Using Big Data Analytics (ICACIE-2017) (Accepted)

Applications of Smart HIV/AIDS Digital System Using Hadoop Ecosystem Components

MBA: Mobile Cloud Computing Approach for Handling Big Data Applications (ICACIE-2017) (Accepted)

SmartBots to the Internet of Things: Using MCC and Big Data (SCI-2018) (Accepted) (** Have written a Book Chapter in Springer-https://rd.springer.com/chapter/10.1007/978-3-319-67925-9_10)

Personal Details

Address Flat No. 201, Ashirwad, Camelot Layout, Kondapur, Hyderabad – 500032
Date of Birth 21st July 1969 || **Languages Known:** English, Hindi, Punjabi, Bengali and Telugu,

Please refer to the annexure for Projects

Jan'23 – Present| Leviton (Canada Project)

Description: In Leviton, we have used the YOLO version 8 algorithm in a floor plan to find the Rooms. Bath-room and kitchen in a floor plan using Complex floor plans. We also tried using SAM (Segment Anything Model) but the results were not satisfactory. The NEXUS application used AI to identify the different classes and then the different devices were placed using NEXUS.

Jun'21 – Dec'22| ISNA

Description: Infosys Smart Network Assurance: ISNA is a tool for NOC operators that provides AI/ML based Correlation and RCA identification along with automatic self-heal for network issues.

LEAP: Description: Infosys Live Enterprise Application Management Platform provides a platform-centric approach for AMS services that makes application management agile, intelligent, integrated and business aligned thereby enabling enterprises realize the live enterprise vision. In this course, we will dive deeper into the Services offered by LEAP.

Jun'15 - Jun'18| NIA Project

Description: Nextgen Intelligent Application helps to connect to different cloud providers like Amazon, Microsoft and Google in an intelligent manner by providing the various required parameters.
It also recommends the various techniques for resolving any errors that may have occurred in the company application.

Jun'18 – Jun'21| Microsoft Group

Description: Creation of Automatic Inspection of Vehicle damage using Deep Learning. The images of the damaged vehicle are fed to the system such that the intelligent algorithm determines the severity of the damaged and accordingly pays the insurers. This information is also fed to the Microsoft Dynamics CRM System.

Title: Component Engineering Group (CEG)

Role: Solution Architect

Period: Since Apr'14

Responsibility: Responsible for defining the end-to-end Solution Architecture for the Recommendation Engine Product that is built for Titan Industries (<http://titan.co.in/>)

Title: Yorkshire Building Society, (Bradford / Leeds, UK)

Role: Solution Designer

Period: Apr'13 to Mar'14

Responsibilities:

- Explained end-to-end Solution Design of various projects to YBS Client
- Interacted with the Enterprise Architecture group to discuss and finalize the architecture of the project
- Served as a Solution Designer and discussed with Business Analysts about the business requirements of the client
- Liaised with the client till the end of design phase of the project to ensure about its successful execution.

Title: Large Deals Team, (UK, Ireland and Europe)

Role: Solution Architect

Period: Aug'12 to Mar'13

Responsibilities:

- Responsible to understand the client requirements and outsourcing objectives
- Liaised with the client during the bid cycle, defined the Target Operating Model
- Designed end-to-end Solution Architecture and Engagement Roadmap for future

Title: Telecom - Technology Excellence Group (T-TEG)

Role: TCS - SOA / BPM Architect

Period: Apr'12 to Aug'12

Responsibility: Accountable for re-architecting the application platform to the Service Oriented Architecture and came up with the Infrastructure Deployment Architecture.

Client: Comcast

Role: SOA / BPM Architect

Period: Mar'12 to Apr'12

Title: BPM Practice Lead

Client: Telecom - Technology Excellence Group (T-TEG), TCS

Role: BPM Practice Lead

Period: Dec'11 to Feb'12

Title: Study of the current TataSky Architecture and present problems faced when using IBM WebSphere products (SOA)

Client: IBM Technology

Role: SOA / BPM Architect

Period: Nov'11 to Nov'11

Client: Oracle SOA

Role: SOA / BPM Architect

Period: Sep'11 to Oct'11

Client: Telecom - Technology Excellence Group (T-TEG), TCS

Role: EAI / BPM Practice Lead

Period: Jul'11 to Aug'11

Title: SOA & Big Data (Hadoop) based Architecture Project

Client: Retail Client

Description: This was a SOA project architecting and design for Titan Industries Recommendation Engine project

Responsibilities:

- Responsible for creating the architecture, design and principles as per TOGAF standards
- Creating the Hadoop architecture and implementing the same

Title: SOA based Architecture

Client: Financial Client

Description: SOA project design for YBS (Yorkshire Building Society, UK)

Responsibilities:

- Engaged in establishing the architecture principles and practices, processes for a large financial client.
- Migrated the existing processes and integrations from legacy to Oracle Fusion based SOA platform.

Title: Strategic Services Platform

Client: Telecom Company

Description: NexTelhas Telecom Operations across North & South America

Responsibilities:

- Involved in defining various views of the architecture, frameworks and service taxonomy
- Provided the information to the team during design, development, deployment

Title: Strategic Architecture Roadmap

Description: GWL (Great West Life) provides group insurance products

Responsibilities:

- Revamped the aging IT applications and processes to align with the change in business strategy
- Engaged in establishing an architecture roadmap with an eye towards alignment with long term business strategy

Title: Vodafone (India) SOA/BPM Practice

Responsibilities:

- Responsible for the setup of the COE for SOA/BPM practice at Vodafone (India)
- Developed best practices and frameworks for SOA based integration solution development using IBM products like WebSphere Integration Developer, WebSphere Process Server