Rakesh Kumar



# Skills

* **Software Application architecture & design**
* **Microservices /.net core /**[**asp.net/C#**](http://asp.net/C)**/Openshift/AKS**
* **Digital Payment/ACH-Nacha/Lockbox/Adyen/Smart pay**
* [**React.js/Angular/TypeScript**](http://react.js/Angular/TypeScript) **RESTful APIs Ms-Sql/Cosmos/DBCosmos DB/MongoDB**
* **AI Services/AI Azure Studio Azure /AWS Cloud/Lambda/s3/ec2/ Python/data bricks**

# Professional Summary

Highly skilled **Solution Architect /.net core Lead** with over **20 years** of experience in s**oftware development**, **cloud architecture**, and **enterprise solutions**. Specializing in **Azure**, **AWS**, and **AI-driven technologies Framework. Restful API** with a proven track record of delivering scalable, **innovative** solutions across **retail**, **payments**, and **healthcare industries**. Expert in designing **microservices** architecture, **AI integration**, **full-stack** development (**React/Redux**), and driving **cloud migrations**.

Adept at leading cross-functional teams, **optimizing cloud infrastructure**, and driving **digital transformation** for enterprise clients.

Experienced in leading large-scale projects and managing both **onshore** and **offshore** teams, ensuring seamless **integration** across **complex** systems. Proven ability to translate business needs into high-performance technical **solutions**, consistently delivering projects on time. **Certified Azure Solutions Architect Exper**t with foundational knowledge in **Databricks**, **Azure AI**, and **DevOps**.

Skilled in collaborating with **cross-functional** teams, including **product**, **quality assurance**, and **cloud operations**, to deliver high-quality results. Adept at managing the entire software development lifecycle (**SDLC**), balancing innovation with the need to address technical debt effectively.

# Key Expertise

**Enterprise Solution Architecture:** Expertise in designing and delivering **distributed**, **containerized**, and **microservices**-based solutions using **Azure**, **Kubernetes**, **Lambda**, **Azure Functions**, **Azure** AD, **SAML**, and **Ping Identity**. Proficient in building workflows with **Azure Logic Apps**, **App Services**, **Service Bus**, and **Event Hub**.

**Migration & Integration**: Led large-scale migrations from monolithic systems to modern SOA architectures using the **6 Rs model** (Rehost, Replatform, Refactor, etc.). Extensive experience integrating with **payment** providers (e.g., **NACHA**, **Adyen**, **TokenEx**) and third-party middleware such as **MuleSoft** And **Reporting PowerBI**, **SSRS, and Crystal**

**Frontend Development**: Proficient in **React.js**, React Native, **TypeScript**, and Redux. Skilled in building responsive, scalable, and user-friendly interfaces for web and mobile applications

**Generative AI & Azure AI Service**s: Basic in Generative AI and its applications in content creation and innovation. Experienced in utilizing Azure AI services, including Cognitive Services, Azure ML, and Azure AI, to build intelligent applications.

**Collaboration & Digital Transformation**: Proven track record of working closely with business **stakeholders** to define technical feasibility and deliver solutions that meet both business and technical requirements. Expertise in driving digital **transformations** and implementing modern **architectures** for seamless **integration** across systems.

**Databricks & Data Science**: Hands-on experience with **Databricks** for data analytics, machine learning processing, and deriving actionable insights for business intelligence.

# Professional Experience

Azure Architect

ePay, Austin, TX

* Designed and developed digital payment solutions for insurance clients (MGAs and carriers).
* Lead integration with MGA management systems for invoices, payments, and receipts.

Dec 2023 – Present

* Design Azure Function Apps (timer-based and message-driven) to automate ACH file transmission to banks.
* Integrate with payment providers (NACHA, Adyen, Lokcbox/smartPay) for credit card processing and secure tokenization(TokenEx).
* Analyze and adapt to enterprise modernization trends and technologies.

Architect/Full Stack Developer

Texas Comptroller of Public Accounts (CPA), Austin, TX Nov 22 – Dec 2023

* Designed and developed solutions for the Public Tax Arbitration System using React.js, TypeScript, and Redux.
* Led UI development for micro frontend (MFE) applications.
* Designed and implemented microservices for backend-to-frontend integration.
* Integrated with MuleSoft services to enhance the system architecture.
* Supported enterprise modernization efforts by analyzing new technologies for system impact.

Solution Architect

Texas Department of Transportation (TxDOT), Austin, TX

Aug 2020 – Oct 2022

* Architected and delivered containerized microservices solutions using Openshift and Kubernetes for the TxDoTConnect application.
* Integrated with legacy mainframe systems to support complex activities for agencies.
* Designed integration with Salesforce, AEM, CCIS, and Aashtoware products using MuleSoft.
* Led data migration planning and interfaced with legacy systems for modern hybrid solutions.

Architect/Full Stack Developer

Microsoft, Redmond, Washington June 2020 – Aug

2020

* Automated the Unified Action Tracker and reduced codebase using Azure DevOps, Logic Apps, Azure Functions, and Power BI.
* Designed and developed microservice-based solutions on Azure Cloud.
* Implemented a dynamic interface for query building, integrating with ADO DevOps and Cosmos DB.

Solution Architect/Full Stack Developer

Levi’s & Strauss, San Francisco, California May 2019 – Apr 2020

* Led the design and enhancement of retail and omnichannel solutions for inventory management (Raymark, XStore, and SAS-PLM).
* Architected and integrated RFID-based replenishment solutions for store associates using Detego, Lanmbda, and s3.
* Optimized and migrated monolithic components to modern tech stacks for high-volume demand.
* Led MW integration with MuleSoft, implementing interfaces for Hybris and integrating with third-party sales forecasting services like CB4.

Solution Architect

GAF, Parsippany, New Jersey Sep 2018 – May 2019

* Designed and developed the Homeowner Journey application for roof customization and experience, microservice architecture and Azure cloud.
* Integrated ServiceNow campaigns and Chameleon for real-time design features.
* Built distributed data streaming using EventHub to support real-time roof design interactions.

Solution Architect

Mavi, San Francisco, California Feb 2015 – Sep 2018

* Designed an enterprise system for HCFC Compliance, ensuring continuous compliance with TJCA standards for medical equipment.
* Developed integration with hospital work order systems and built solutions using AWS and Web API/Microservices
* architecture.
* Created lambda-based functions to calculate inspection scores and supported CI/CD automation pipelines.

AM/.Net Architect

iYogi, Gurgaon, India Feb 2011 – Feb 2015

* Enhanced core product offerings, including Support Dock, iMantra CRM, and Smart House (IoT) solutions.
* Led third-party integrations with Bomgar and implemented mobile device management (MDM) solutions.
* Spearheaded IOT solution development, including custom integration services for mobile applications.

Team/Tech Lead

INFOPRO Pvt. Ltd, Noida, India Oct 2008 – Feb 2011

* I led the team in developing the Virtual Pathways Portal for LabCorp, covering end-to-end processes from requisition to
* final testing.
* Integrated backend services for inventory and real-time booking systems.
* Developed WCF services and complex reservation/payment queries for client integrations.

Lead Developer

ITCONS e-Solutions Pvt. Ltd Apr 2007 – Sep 2008

* Developed the National Health Service Corps system to track open and filled positions across remote U.S. locations.
* Designed backend services and complex WCF integration for NHSC staff performance monitoring.

Developer

ATS Services Pvt. Ltd Jun 2003 – Apr 2007

* Developed systems for Learning Management, ERP, and Abn-Amro Insurance.
* Built backend interfaces and WCF services for various enterprise applications.

# Certifications

* Azure Solutions Architect Expert
* Databricks Fundamentals
* Azure Administrator Associate
* MuleSoft Certified: Developer Level 1
* Microsoft .NET Framework 3.5, Windows Communication Foundation Application Developer
* SAFe 4.5 Certified Agilist (CERTIFICATE ID: 84335424-3139)
* Certified Scrum Master (Certified ID: 470145)

Education

* Master’s in computer application from IGNOU, year 2005 to 2008
* Bachelor’s in computer application from IGNOU, year 2000 to 2003
* Bachelor of Science -Math VBS Purvanchal University (UP), year 2000 to 2003