**RATNAKAR SINHA**

Pronouns: he / him / his

**MCA, MCTS, MCSD, MCAD, MCP, AWS, TOGAF Certified**

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**PROFILE**

A World-class IT executive educated to MCA (Masters in Computer Application) level, with 19+ years of experience in Digital Transformation, Solution Architecture, Enterprise Architecture, Application Integration, API Management, and Security Architecture. The main focus of my career has always been on solution architecture, technical leadership and business development, especially when it comes to large scale transformation projects.

**CAREER HIGHLIGHTS**

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| * Architect/technical leadership roles performed in multi-million dollar global projects with adherence to processes and quality standards.
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| * Lead cross industry enterprise integration and solution architecture on Microsoft Azure platform.
* Member of leadership team responsible for setting up of Microsoft UK practice at Deloitte UK.
* Defined the API microservices architecture strategy for a UK public sector bank along with performing a technology selection market scan to provide the best fit target state architecture and best fit cloud solution hosting option.
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| * Lead the solution architecture, design and implementation of EDI archive solution for a large container ship and supply vessel operator organisation. The solution securely integrated and archived millions of EDI messages that is sent/received through company EDI platform.
* Played the role of Azure SME and improved Azure knowledge of existing integration team at a UK insurance firm. Created a catalogue of best practices and standard design patterns for cloud implementations depending on specific use cases.
* Extensive experience in several business domains such as transport, logistics, insurance, healthcare, travel, education, media, energy, retail, real estate, financial services.
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**KEY SKILLS**

* Solution Architecture, Enterprise Architecture, Integration Architecture, Information Security architecture, API microservices architecture
* Digital Transformation
* **System Integration** - Azure iPaaS, MuleSoft, Dell Boomi, API Management, Microsoft BizTalk, SQL Server Integration Services
* **Microsoft Azure** - API Management, Logic Apps, Relay Services, Azure Functions, Service Bus Queue/Topics, Event Grid, Web App, DevOps, Azure Active Directory, Active Directory B2C, Key Vault, Azure Integration Account (EDI/AS2) , Azure SQL Server, Cosmos DB, Azure Monitor, Log Analytics, Application Insights, On-premises Data Gateway, Data Factory, Data Lake, Databricks, File Sync, BLOB storage, VNet, NSG, Azure Firewall, Traffic Manager.
* **Security** - SAML, PKI, Single Sign-on, OIDC, OAuth2, JWT tokens, SAS tokens, Identity Management and Federation, Encryption Technologies, Access Control, XML Security, PCI DSS, API Security, ISO 27001, Cyber Essentials
* **Software Development** - C#, .Net, SQL Server, Oracle, Cosmos DB, API Design, Distributed Architecture Design
* **Build and Release management** - Azure DevOps pipelines, Infrastructure as Code (IaC), ARM Templates, Terraform
* **Software Testing** - Functional, Integration, System, Unit
* **Software Engineering** - UML, OO Methodologies, Design Patterns, SDLC, Agile
* **Soft Skills** - Stakeholder Management, Program Leadership, Pre-Sales, Business Development

**CERTIFICATIONS**

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| * AZ-300: Microsoft Azure Architect Technologies
* API Security Architect
* TOGAF® 9 Certified
* AWS Certified Cloud Practitioner
* Microsoft Certified Professional (MCP)
* Microsoft Certified Technology Specialist (MCTS)
* Microsoft Certified Solution Developer (MCSD)
* Microsoft Certified Application Developer (MCAD)
* Test 286, Application Development WebSphere Studio V5.0
* IBM Certified Database Administrator – DB2 UDB for V8.1 for Linux, UNIX and Windows (701)
* IBM Certified Database Associate – DB2 Universal Database V8.1 Family (700)
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**CAREER HISTORY**

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| **Senior Solution Architect** | **09/2019-Present** |
| **Deloitte Consulting**  |
| * Lead integration architecture on Azure platform (using Azure Integration Services, event driven architecture) for a UK insurance firm.
* Performed technology selection and defined the target state architecture for a leading UAE bank’s Core Systems (Core Banking, Workflow & Middleware, Reconciliation, Document Management Systems & Statements, and Payments). Performed application rationalisation based on analysis of the current inventory and understanding the capability overlaps and challenges existing in the current architecture. Developed 3-year roadmap and budget estimations for transition from application current state to the target state.
* Defined the API microservices architecture strategy for a UK public sector bank. Performed a technology selection market scan to provide the best fit target state architecture and best fit cloud solution hosting option.
* Provided technical support to a UK public sector bank by participating in lender workshops for Bounce Back Loan Scheme (BBLS) and Coronavirus Business Interruption Loan Scheme (CBILS) program.
* Information security architecture review and risk assessment of all projects implemented at the bank. Key projects to name-
	+ Workday Adaptive Planning Implementation and Integration to bank’s Financial System
	+ Dynamics CRM FocalPoint Integration
	+ Covid Initiatives
	+ VPN Uplift Programme
	+ Setup Azure Cloud Centre of Excellence
* Designed the Technical Security Standards document, Risk Review and Exception document. Implemented Security Threat Modelling as part of security and risk assessment of projects. Challenged project design proposals to promote secure design and build.
* Solution architecture, design and manage implementation of EDI archive solution for a leading international container shipping company. Securely archive millions of EDI messages that is sent/received through EDI platform on to Azure Data Lake using Azure Data Factory. Provide search and query functionality using Azure Databricks. Automate Infrastructure as Code using Terraform and automate DevOps process using Azure DevOps pipelines.
* Product analysis and selection, support bids, create proposals, manage team, estimations.
* Member of Deloitte UK Microsoft Practice leadership team responsible for establishing Microsoft practice within Deloitte UK and leading the practice support hub.
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| **Contract Integration Architect** | **12/2018 – 08/2019** |
| **Halfords, NBC Universal, NFU Mutual** |
| * Integration of Halfords retail and Halfords autocentre booking modules developed in Salesforce Commerce Cloud and integrated to Booking Bug and Pace booking systems.
* Created enterprise integration strategy proposal to be implemented at NBCU. The future implementation was to align with Microsoft strategy and roadmap to migrate ESB integration to Microsoft Azure cloud. Redesigned existing solutions to come up with a standard ESB architecture and design solution that would achieve the key architectural goal of maintainability and supportability.
* Played the role of Azure SME and improved Azure knowledge of existing integration team at NFUM. Created standard Azure design pattern templates for file and message based integration between existing systems at NFUM. Created a catalogue of best practices and standard design patterns for cloud implementations depending on specific use cases.
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| **Senior Consultant** | **01/2017 – 11/2018** |
| **Solidsoft Reply (clients – Healthcare at Home, Duff & Phelphs, Savills)** |
| * Implemented integration of materials distribution system and warehouse management systems for HaH. Exposed on-premises Enterprise Service Bus (ESB) to external vendors via Azure API Management, Logic Apps and Service Bus Relay. Requirements analysis, estimation, planning, architecture, design and development of hybrid (on premise BizTalk and Microsoft Azure cloud) EDI AS2 interfaces (using GS1 standards).
* Led the development team and implemented BizTalk interfaces to integrate between HaH Dynamics CRM and HaH scheduling software (Click). Clinician tasks scheduling was automated and resulted in optimized resource scheduling at HaH. A new Enterprise Service Bus framework was created at HaH as part of this project which is being reused for all future integration projects at HaH.
* AXA property valuation checker web app was developed for D&P client AXA to evaluate if property is over or under insured. I performed analysis, architecture, design and development of D&P Valuation Web App project in Microsoft Azure (WebApp, Azure Active Directory B2C, Logic Apps and Azure SQL Server) on MVC pattern. Automated pre-existing manual process of property valuation that was done using spreadsheets.
* Analysis, design and initiate Savills integration project. Designed and developed BizTalk interfaces to integrate between Savills Dynamics CRM and Savills Dynamics AX applications. Automate flow of financial data between Savills CRM and Dynamics AX system which resulted in higher operational efficiency.
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| **Contract Integration Architect** | **02/2013 – 01/2017** |
| **NBC Universal, Capita, Royal Holloway University of London** |
| * Project was to consolidate different version of TV channel management systems running on different platforms in NBCU to a new single channel management system (CMS) to improve service operations, maintenance and future growth considerations. Performed the role of SOA Architect and was responsible for architecture, design and development of Enterprise Service Bus to allow integration of legacy systems and new channel management system with applications for media content preparation, scheduling and broadcasting of contents on TV channels across the globe.
* Implemented integration solution for managing key operations at TfL (Transport for London). 1) Business Operations for CC (Congestion charging) and LEZ (Low Emission Zone). 2) Enforcement Operations for CC and LEZ, and traffic enforcement covering Red Routes/Moving Traffic Offences. Architecture, design and developed Capita Enterprise Service Bus using BizTalk Server 2013 and ESB Toolkit 2.2 for file transfer interfaces that provide a generic solution to minimize overall implementation cycle and a maintainable and scalable solution in the long run.
* Developed new admissions system to allow applicants from across the globe to apply for admission to eligible courses at Royal Holloway. Designed and developed BizTalk WCF web services exposed as REST web services. I was the technical point of contact for offshore IT web portal development team.
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| **Technical Architect** | **05/2009 – 02/2013** |
| **Wipro Technologies (client – Shell)** |
| * Integration project for flow of fuel stocks, sales, customer master and transaction data from multiple vendor locations and in multiple data formats using Microsoft BizTalk Server/SQL Server Integration Services (SSIS) as the primary integration platform. Designed and developed BizTalk integration interfaces capable of handling millions of real time transactions securely and with guaranteed delivery.
* Shell Loyalty Rewards Program - Designed and developed integration interfaces for handling loyalty and bonus rewards for Shell customers.
* Shell Trading Group Maritime Assurance Program – Processed PDF documents through the integration ESB layer.
* Shell PosNext CAP Integration project – Developed high volume data integrations and maintaining transactions.
* Shell Retail Middleware program – Developed framework in BizTalk on lines of ESB to post retail stocks, sales and deliveries IDOC to Shell global SAP. This enabled GSAP to become live in 45 countries in integrating Shell retail sites to GSAP which is currently handling millions of transactions per month.
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| **BizTalk Consultant** | **09/2008 – 04/2009** |
| **iMetrikus Data Exchange** |
| * Healthcare technology company pioneer in internet based remote health monitoring systems. Developed patient enrolment, medical alerts delivery system, and medical device registration and fulfillment system.
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| **BizTalk Consultant** | **02/2007 – 09/2008** |
| **Fidelity International** |
| The project was a collection of automated and manual processes that included different integrated workflow applications to process client's instructions at FIL and to send correspondent to clients. I was involved in analysis, design and development of modules. I implemented BizTalk design patterns like aggregator, disassemble and singleton patterns to process different BPM scenarios.  |
| **Technical Lead** | **09/2005 – 02/2007** |
| **Hexaware Technologies (client – Trainline.com)** |
| This was a portal development project which would also be exposed as a web service gateway for their clients to enable them search and book train tickets online. The project was developed using the agile development process. I was involved in offshore project initiation after having a thorough understanding of the existing code at Capgemini UK. Implemented continuous integration build process for the project and was involved in migration of existing code base from .Net 1.1 / BizTalk 2004 to .Net 2.0 / BizTalk 2006. |
| **Software Engineer** | **01/2004 – 09/2005** |
| **Hewlett Packard (clients - Centre for Information Services Washington US, HP National Identification System Bulgaria, Partners HealthCare Boston, PGGM Netherlands)** |
| * Developed windows application in C# using PGGM framework for pensions and investment management.
* Created reporting system for Partners existing website using Partners .Net framework and architecture.
* Developed information system for managing a countrywide operation of citizen enrolment, personal registry, biometric verification, ID personalization and management. Was involved in creation of Proof of Concept which required image manipulation in web application.
* Re-engineered the Finance Management System for CIS written using Transact, COBOL, C and PASCAL on HP MPE 3000 environment to .NET environment.
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**PERSONAL**

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| **Nationality** | British |
| **Languages** | English, Hindi |
| **Other Interests** | Travelling, Playing Badminton |

**REFERENCES AVAILABLE ON REQUEST**