Vinod Rajput | Technical Architect (Azure, .Net Core, Angular)

E-mail: Deeksha@concept-inc.com

Contact: **+1 470 866 2733**

❑ **Experience Summary**

- Seasoned Software Engineer having 16 Years of experience of software applications & product development in **BFSI** (Payment, Investment banking-AI, Retail banking, Insurance), **Telecom** (CTI, VoIP, IPTV, CRM) & **Energy-Utility** domains. Worked with leading clients Truist, Ingenico, TXU Energy, ABB, Jack Henry Associates, Credit-Suisse, Microsoft, T-Mobile, T-System etc.

- One line Role description, I write code, architect applications, lead a team of developers and often have final say over the tools and platforms we use, **working as a Technical Architect from last 7 years.**

- Roles performed so far: **Technical Architect, Full stack developer**, Individual Contributor, **DevOps Engineer**, Scrum Master, **Tech lead**/Team lead (3 to 25 people).

- Extensive working experience with **SAFe, Agile (SCRUM, KANBAN) & Waterfall methodologies**, **Clean Architecture**, **Test-driven development (TDD),** N-tier enterprise application development using **SOA** with **EAI** (TIBCO & middleware), **Event driven Micro service**s etc.

- Hands on Experience of app modernization, cloud migration, **Micro-services** development with **DDD (domain driven design)** and **MACH (Microservices-based, API-first, Cloud-native, Headless)** Architecture; implemented highly available, scalable, resilient and secured applications using **ASP.NET MVC, .Net Core, Dapr, Service fabric, Estio Service mesh** and **Azure** services such as **API Management, Serverless(Azure functions, Azure container App, logic apps), AKS(Azure Kubernetes service), Azure storage, Azure data factory, Azure SQL Database, as well as AWS services like EC2, AWS EKS, lambda** etc.

- Hands on experience on **Azure** PaaS, IaaS, SaaS app development, containerization, server less computing, Power shell, CLI, **IoT & Edge** integration, Streaming (**Azure Stream Analytics**) & Messaging (**Azure Service Bus, Event Grid, Event Hub, IoT hubs**), Cognitive services (**Speech, Image reorganization**) & **AI-ML** services (**ML.NET**) etc.

- Hands on experience of Web UI development using **Angular** 8-14, Javascript, Type script, JQuery, HTML 5, CSS3; Desktop application development using Microsoft stack (**.NET 6, .Net Core 3.1, C#, WPF,** Windows Form, **WCF**, ASP.NET Web Form, **ASP.NET MVC**, **Web API, Entity Framework**), **Site Core CMS 8** and legacy technologies like VC++ (Win32SDK, MFC, and ATL/COM) & VB6; And **STB (Set top box)**app development using **Microsoft media room IPTV SDK** etc.

- Strong background of **algorithms and data structures implementations** using **C, C++** and **C#**.

- Hands on Experience on **multi-threaded, multi-tenant** app development using **cloud design patterns, OOP concepts, design Patterns**, Architectural design patterns (**Microservices architecture, MVC, MCP, MVVM**), Cross cutting concerns (tools used **Redis Cache**, ELMAH, **Serilog** etc), Coding principles and standards (**SOLID, OWASP** principles), **Dependency injection** IoC (**Autofac**, Unity) & Mocking framework (like **Moq**) etc.

- Experience of RDBMS (**Oracle8, MS SQL-Server**) & NoSQL database design, development and ETL tools (**SSIS, SSRS**).

- Hands on experience of **DevSecOps** and related tools. Implemented complete ALM – DevOps process and practices like Traceability matrix, **Configuration Management, branching strategies, CI-CD, Application performance monitoring, incident management** etc. using tools like VSTS, **Azure DevOps** server, **GitHub**-Bitbucket, Docker Containers, Powershell scripts, Azure CLI, python, TFS, Release manager, Octopus, AppVeyor deployment tool, **New Relic** APM tools, **SoanrQube**, **Veracode**, JIRA, QC, HP ALM etc.

- Hands on experience on release management, Production Deployment, Managed Service delivery-**Production L1 & L2 supports.**

- Worked on **data center migration on Azure** cloud RFP with pre-sales team.

- Experience of implementing Modern Security Protocol, Authentication (**Open Id Connect**) and Authorization (**OAuth2, JWT**) with Web and cloud native applications.

- Designed and developed Web UI Automation framework using **Selenium, BDD -Speck flow integrated with CI-CD pipeline** for Release (regression) testing; implemented it across the portfolio.

❑ **Education**

- Master of Computer Application (MCA), Mathematics & Computer Science, 04/2005 from North Maharashtra University, Jalgaon.

❑ **Certification**

1. **Microsoft Certified: Azure Solutions Architect Expert** (Exam **AZ-305**: Designing Microsoft Azure Infrastructure Solutions) (Feb -2023)
2. **Microsoft Certified: DevOps Engineer Expert** (Exam **AZ-400**: Designing and Implementing Microsoft DevOps Solutions) (Feb -2023)
3. **AZ-300**: Microsoft Azure Architect Technologies (Feb-2020)
4. **AZ-204**: Microsoft Azure Developer Associate (July-2021)
5. **AZ-900**: Azure Fundamentals (June-2021)
6. **AI-900:** Microsoft Azure AI Fundamentals
7. **DP-900**: Azure Data Fundamentals (June-2021), Transcript ID: 1143529. Access Code: MCP12345
   a. MS Certificate Validator: https://mcp.microsoft.com/Anonymous//Transcript/Validate
8. **70-532**: Developing Microsoft Azure Solutions (2015)
9. **70-487**: Developing Microsoft Azure and Web Services (2014)
10. **70-486**: Developing ASP.NET MVC Web Applications (2014)
11. **70-513**: TS: Windows Communication Foundation Development with Microsoft .NET Framework 4 (2014)
12. 070 536 - Microsoft .NET Framework 2.0 - Application Development Foundation – (2010)
13. 070 528 - Microsoft .NET Framework 2.0 - Web-based Client Development– (2010)
14. Certified Scrum Master **CSM** - (2016)
15. Avanade Scrum Foundation (ASF) (2016)
16. **ITIL v3** Foundation (2014)
17. **PRINCE2** Foundation & Practitioner - Completed in 2014
18. Brain Bench ADM Developer Dot Net- Assessment [Transcript ID: 8428342] (2010)

❑ **Technical Skills**

Prog. Languages	C#, VB.NET, VC++ (Win32, MFC, ATL/COM), VB6, Java, Java script (ES5-6), Python, VBA etc.
Databases	MS Access, MS SQL Server 2014, Oracle 11, NoSQL Azure Cosmos DB & MongoDB
ETL – Reporting Tool	SSIS, SSRS 2008-2019, Seagate Crystal report 8.
Back End Development	.NET 6, .NET Core 3.1, Visual Studio.NET 2019, .Net Entity framework, Web Services (ASMX), WCF,REST, SOAP, Web API, GraphQL, Microsoft Enterprise Library, LINQ etc.
UI Front End Technologies	Angular 8+, Node.JS, Type script, JQuery, ASP.NET MVC, WPF, Windows Form, Infragistics/DevX/telerik Controls , HTML 5, CSS3, Ajax, Java script, ASP.NET Web Form, JSON, LESS-Less.js, XML, XSLT. Good understanding of React JS.
CMS Tools	Interwoven Team Site, Site core 6.0 to 8.0
Design tools	Enterprise Architect 7.5, MS Visio, Altova XML Spy, Visual studio Modeling features.
Testing Tools	Karma-Jasmine, BDD, Cucumber-spec flow, Selenium .NET API, UI Automation, VSTS, Ranorex Desktop Test Automation framework, NUnit ,XUnit, MSTest, Moq & fake (mocking library), HP Quality center, SoapUI 3.5, Postman, Tibmon, Fiddler.
Cloud Technologies	Aws (EC2, Lamda, AI Services, EKS, Fargate), Azure (PaaS, IaaS, Serverless compute, Logic Apps, AKS, Service fabric, API gateway, Service Bus, Event hub,Stream Analytics, IoT Hub, Power shell, CLI, ML studio, ML.NET, Cognitive Services (Speech,language,Vision))
Source control:	Azure Devops -GIT, GITHub, Bitbucket,TFS 2008-2015, VSTS, VSS 6.0, Tortoise SVN 1.4 etc.
DevOps Tools	Azure DevOps , Docker container + Kubernetes, Microsoft Release Manager, MS Build, Octopus 3.x, New Relic, WebSitePulse Monitoring tool, Application Insights, AppVeyor, ACE Cisco load balancer, Tealeaf Servers, ANTS Memory profiler, Debug Diagnostic tool (DebugDiag),SonarQube, Intel vTune
Telecom domain related tools & SDK's	MS Media Room IPTV framework 2.1/3.0, Media room server with Cisco STB, Voice XML, MS-RTC VOIP/SIP SDK, Office Live communication Server(OCS) SDK, Microsoft speech server SDK & SALT,

	Windows telephone - TAPI 1.0/2.0.
Process/Practices	SAfe-Agile development (Release train, Scrum, Kanban), Design & Architectural Patterns, Cloud design patterns, OOAD, SOLID principles, TDD, DDD Microservices architecture, Cross cutting concerns

❑ Work History

11/2018 To Current	Truist Bank, Charlotte NC, USA.	Technical Architect
Description	Truist Financial Corporation (formally known as BB&T) acts as broker that assists in selling of insurance policies of various insurance companies through agents in the return of commission on premium paid in percentage. This B2B web applications (Carrier payables-CPS & Direct billing system- DBS) facilitate the account (payable & receivable) reconciliation with agent management systems like Sagitta & AIM integrated with different carriers all over USA.	
Responsibilities	- Accountable for every aspect of ALM, collaboration, designing, implementation and release management for 2 major client's applications CPS & DBS and several other dependent services and utility applications on 2 different client environments, MIS(McGriff) & CRC. - Worked as a Technical Architect & Full stack developer majorly worked on **Azure Cloud, .NET Core** & **Angular** stack. - Modernize McGriff CPS & DBS application with MACK architecture. Used Dapr framework, Container Apps, Azure functions, Istio Service mesh, Azure API Management and AKS for Microservices development with .Net Core and Front end developed in Angular 14. - For CRC CPS application Containerization PoC done with AWS EKS services for .Net Core services. - Created Sagitta & AIM simulator -proxy services and BrainWare simulator (.NET Desktop application) - Developed generic UI Test Automation framework (using BDD, Cucumber-Spec Flow with Selenium and C# with POM design pattern) which is even reutilized by other projects. - Worked with Pre sales team for Bid support, solutioning, estimation for Cloud Migration RFP. - Performed APR analysis, cloud reediness & architectural assessment for Application modernization and on cloud Migration using Rapid adopt, CAST and Azure Migrate tools. - Monitored and tested application performance to identify potential bottlenecks, created service improvement plan and collaborated with developers on solution implementation. - Wrote and maintained custom **power shell** and **python** scripts to increase system efficiency and performance time. - Performed quality code review and removed technical debt and security vulnerabilities. Like replaced Windows work flow (MS WF) with backend services. Replaced legacy logging and auditing code with Serilog , Integrated Sonar qube and vera code in CI-CD release pipeline. - Improved business productivity for clients by 30% by re-engineering and re architecting the Auto match algorithm. Build strategy design patterns to make it more extensible to support different algorithms based on backend SQL data analysis as well as AI ML models. **DevSecOps Implementation**: CI-CD release pipeline implemented for CPS & DBS web application and related windows services on Azure DevOps platform which is integrated with Service now, jfrog artifactory, SonarQube service connections and Automated UI test suits. Also automated Nuget package deployment to Artifactory those referenced across the business unit. Implemented CICD for database, ETL packages and SSRS reports deployment.	
Tools & Technologies	.Net 6, .Net 4.8, .Net Core 3.1, ASP.NET MVC, Azure & AWS cloud, Azure-DevOps, GIT, Web API, WCF, Angular 8-14, kendo UI, Telerik controls, SQL Server 2014, SSIS, SSRS, Selenium, Cucumber, Spec Flow, BrainWare, Sagitta & AIM tools.	

04/2017 To 10/2018	Associaonline.com, Texas, US.	Principle Consultant – Technical Architect
Description	Associa is a global company serving communities around the world. It is the largest homeowner's association (HOA) management company in America that specializes in nationwide property management and community management. Community Archive – CA is the sub application within associaonline digital platform. Legacy web & desktop application being modernized to new .NET platform with enhanced and updated functionality. This is B to C Web portal and major revenue contributor in Associa property business	
Responsibilities	• Legacy system ported to new platform while utilizing the cutting-edge new technology stacks, keeping eye on customer centric usability. • Worked with different stakeholders to understand various aspects of business, existing IT infrastructures and integrations with other subsystems (like **CISCO UCCX** tools, AWS Poly) to propose new design and architecture to be aligned with new goals of Digital platform • Designed architecture of complex UCCX prompt management tool Envoy and CUCM API calls for telephony settings. • Created UCCX Trigger application in Cisco proprietary programming language and hosted on the platform; Developed API wrapper on UCCX Oracle data source to display on dashboard. • Worked as a Full stack developer and Architect with technology stack as: **Azure, .NET Core, Angular** stack. • Performed code review, setting up deployment pipe line, production deployment, overall QA assurance- testing and application maintenance. • **DevSecOps Implementation**: CI-CD release pipeline created with GIT, AppVeyor for web application, database, REST/GraphQL, API etc.	
Tools & Technologies	ASP.NET web form, MFC, WPF, Azure Cloud, ASP.NET MVC, C#, Web API, Angular 4+, SQL Server 2012, Cisco CUCM - UCCX API and SDK, AWS Poly API, Graph QL.	

06/2014 To 02/2017	Accenture, Pune INDIA	
Description	**Ingenico Payment Services groups –Belgium / Ogone Payment back office - Fraud detection Module**	Sr. Developer, Tech Lead
Responsibilities	• Worked on Fraud detection Module (FDM,FDMA, FDMA Expert review) which is the heart of Ogone Secured payment service. • Implemented **WCF SOAP API** for the secured online payments for card-not-present transactions (e-commerce, m-commerce, mail/telephone order, batch payments) and fraud prevention services. • Developed E-commerce Simulator application in **ASP.NET MVC & Angular 2** which is connected to Ogone through certified links with banks and acquirers and provided international and local payment methods. • Ensured various Agile practices and process at offshore team, code development, integration/service test, code review etc.	
Tools & Technologies	C# .NET, WPF, WCF, ASP.NET MVC, Angular, SQL Server 2015, Visual Studio 2015, WCF, Entity framework, Web API etc.	

	Txu.com - Energy Future holdings, TXU Energy Web portal	**Technical Lead**
Responsibilities	• Worked as a Site core developer, Architect, release coordinator, Configuration manager. • Handled a team of 20 resources (Application Support, maintenance and development team). • Involved in maintenance and production support activities. Ensured managed service delivery (24*7*365 L1/L2/L3 Support with 99% SLA maintained). Handled responsibilities like IM/PM tracking, overall development status for current release.	
Tools & Technologies	C#, Sitecore6.6, Angular 2, Azure cloud –IaaS, Powershell, ASP.NET Web form, .NET 4.5, WinForm , WCF, SAP, Oracle etc.	

	ABB Group, Remote Diagnostic System Dashboard app for ships Controllers	Technical Architect
Description	This utility software facilitates ABB service engineers and executive to remotely monitor and controlled the machinery/hardware installed on the shipyard. It also predicts the maintenance and allows service engineers to remotely logged in to **Iot Edge Intel NUC devices**. Three layers are developed; Web based SPA application, Azure server components and services and IoT hub integration modules	
Responsibilities	• Designed architecture of Dashboard with two-way commands and messaging (using Azure Web job and queue storage, SignalR components). Developed Remote desktop login from Dashboard app into Intel NUC board at site . • Design and developed Azure server components, Data Extraction from Edge device, exchange and analysis through IoT hub and Azure stream analytics. Written custom filters for Stream analytics • Closely worked with Scrum master and PO for backlog grooming.	
Tools & Technologies	ASP.NET MVC , Angular JS , Azure PaaS, IoT SDK, Azure Stream analytics, Intel Nuc Kit, SQL Server on Azure, WCF, Windows Service, WinSCP.NET Lib, ObserveIT etc.	

09/2013 To 02/2014	Jack Henry Associate Inc, Missouri, USA - RD Smart Client (Remote deposit app for Check processing.)	Tech Lead
Responsibilities	• Designed and developed Flatbed Scanner SDK from scratch using **C#, Twain & WIA drivers** and **LEADTools SDK**. It supports Multithreaded (Event based async calls) API for scanning services integrated with Web RD to scan the checks from browser plugins. This Scanner SDK is hosted in locally running Windows service which interacts with Browser plugin. • Created Driver application in **WPF** to test and simulate the Scanner SDK API. • Developed SPA Web UI using **Angular JS 1.8, Type Script and ASP.NET MVC**. • Responsible for peer review, unit testing code coverage, agile best practices for the team • Lead the architectural designing, analysis and demonstration of product to the client. • Lead the SCRUM activities like Sprint planning meeting, creation & estimation of user stories within sprint, tracking day to day progress of team members for micro deliverable's etc. • Technology & Tools used:	
Tools & Technologies	C#, WCF, WPF, Lead Tool lib, ASP.NET MVC, SQL Server 2008, SSRS , VS2012, Framework :Angular JS, Type Script, LESS, Simple Injector IOC, Moq-Mocking for Unit test, Jasmine etc	

03/2008 To 08/2013	Cognizant Pune INDA	Sr. Associate
	Credit-Suisse USA - Portfolio Management tool – Beta engine	
Description	Beta engine is the Portfolio management tool developed for Alternate Investment banking practices This **product** developed from the scratch which supports complete trade execution life cycle (involves Post trade analysis, execution and settlement) and specially designed for USA and Zurich stock exchanges. Instrument types Equity and Fixed Income are traded using Beta Engine. Portfolio Manager sends trade baskets via FIX (Financial information interchange protocol) engine to external brokers for trading and settlement. It supports both web and windows based thin client UI for user interaction.	
Responsibilities	• Worked in SCRUM as a Sr. developer responsible for end-to-end development of use cases and modules. Technical /designing documentation created with UML diagrams. • Developed desktop client using WPF and Infragistics/dev Express controls. • Worked with Data Integration team on SSIS & SSRS (development and deployment of SSIS ETL packages, SQL job creation and job scheduling), worked with build team to deploy the packages, and created various SSRS reports. • Testing automation done using Ranorex lib, VSTS used for unit testing. • Developed backend WCF SOAP web services with FIX protocol, tested with SoapUI tool.	
Tools & Technologies	NET 3.5,C#,WPF, WCF,VS 2008,TFS 2008, NUnit, MS-Sync Framework, SQL server 2008,SSIS, SSRS, FIX C# Lib.	

	T-Mobile Netherlands B.V - www.t-mobile.com Web portal
Description	This CRM portal includes various subsystems/tools like PublicService(WCF), Internal services (WCF), Publi (ASP.NET MVC3.0, teamsite),Internal tools like "ToolsWeb" (ASP.NET), Background services, T-Shop MN portal for Customer care executives.
Responsibilities	• Worked as a Sr. Developer in IT-Enablers CRM portal development team. • Worked on Tibco interface development to CRM web portal using WCF. • Developed UI of new release of public web portal using ASP.NET 3.5 framework with TeamSite CMS and created Java script/jquery custom controls. • Worked on Database backed, created complex stored procedures, troubleshoot them for performance improvements.
Tools & Technologies	C#, WCF, ASP.NET 3.5 & MVC, Windows form, WPF, Java Script Tibco, Interwoven Team Site suite CMS, VS2008,SoapUI,Tibmon, fiddler, TFS 2008, Altova XML Spy, Oracle 9i, Toad 9
	T-System Germany - Smart EPG4 IPTV Application – Electronic Program Guide for Microsoft STB
Description	This STB application provides services such as recommendations, VOD (Video On Demand) content, customization of the programs, reminders, scheduling etc in addition to regular TV broadcast services. Using SmartEPG4 users can search, select and schedule the programs, apply parental locks, schedule recording for live TV, search, select & purchase VOD contents etc. External services like IMDB & Movie Pilot portal used for recommendations and You tube, DVR /Media server, UPnP devices are used for view–search-select media contents available from various sources
Responsibilities	• Handled a team of 4 FTE's. Performed requirements analysis, designing, coding and estimations . • Developed UI screens and custom server controls for MPF application. • Developed uPnP devices and SSIS discovery module and integration with external Media Servers, Created Remote control desktop utility to manage STB EPG. • Developed "Recommendation service" to provide online media recommendation for VOD content, TV Archive and Live TV Channels by accessing the data from "Movie Pilot", IMDB , Facebook and 3rd party Program manager services. Which accessed the data provided by REST based services.
Tools & Technologies	C# & ASP.NET 2.0 with Microsoft Media room 3.0/2.1/2.0 ADK, VS2008, XML, Tortoise SVN, Red ga Reflector, Java script, Web Services, REST & JSON etc. Media room Server running on Windows serve Tasman browser built in MS STB. Windows CE, MS Media room ADK emulator. Hardware Platform : Microsoft STB connected to Sony digital TV

08/2006 To 02/2008	**Aumtech Inc USA - IVR – Chat Boat for CRM application using SIP - VoIP soft phone**	**System Analyst**
Description	This IVR Application framework allows customer support (human agent) and end user to be able to chat with each other using text and voice-based input, User will get output in text and speech format. communication goes through the automated agent (Agent Robot). This Robo internally used AIML (Artificial markup language) DB to provided automated answers to different user queries. Each end user and human agent will get registered on OCS server which provides SIP registration services and connected with MSS (MS Speech Server) to process SALT / VoiceXML (VXML) files. ASUA Soft phone (Developed by Aumtech) used here to provide RTC functionality.	
Responsibilities	• Designing, analysis & coding of whole product, responsible for complete Product development. Worked as an individual contributor with SME.	
Tools & Technologies	C#, Windows Form, MS RTC (VOIP) SDK, VC++.NET, ATL 8.0, NET 2.0, C#, ASP.NET, Windows Form, Microsoft LCS & MSS SDK.	
	Microsoft, Redmond USA - Arc MRCP Connector for Microsoft Speech server 2007	
Description	The MRCP Connector is a middleware application that allows communication to a Microsoft Speech Server (MSS) from a Telephony platform via MRCP [Media resource control protocol]. The ARC MRCP Connector runs as a Microsoft Speech Server application and converts the MRCP V2 operations into Microsoft Speech Server API calls. There are two main components to the overall solution 1. The ArcSipSessionManager - also known as the SIP Proxy 2. The ArcMrcpConnector - The middleware responsible for the communication with MSS.	
Responsibilities	• Developed config file modification module which gets configuration from windows registry. • Desktop utility developed in C# and VC++.NET for configuration and setting of MRCP server. • Developed connector module runs through separate windows service by which any external executable can be run as a windows service. • Developed Windows service for plugins development and Customize setup program generation in .Net and VC++	
Tools & Technologies	VC++.NET, C#,	

10/2005 To 08/2006	**GENTICITY – Canada (Sigma Software Solutions Pvt. Ltd. Pune)**	**Software Engineer**
Responsibilities	• Worked on the "Customer 1 Hybrid – Enhanced Export Utility" (SQL Query Builder) • Understand the requirements, designed database, class diagrams and work in IC role with Client. • Developed Desktop app Query builder utility in VB.NET and Windows Form • Integrated CTI (Computer telephony integration) controls in Desktop app. • Designed and created dashboard Web UI using ASP.NET Web Form and C# • Created data model, stored procs in SQL and Oracle	
Tools & Technologies	.NET 2.0, C#, VB.NET, VC++, TAPI Win32 SDK, ASP.NET web form, Windows Form, SQL Server 2000, Oracle 9, Toad.	