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| **Bhupinder Singh**  **Microsoft Certified Azure Architect** | |  | | | | Rugby, Warwickshire | |
|  | | | | bhupinder@baseresolve.co.uk | |
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| **Summary** | | | | | | | |
| With over 16 years of experience in IT consultancy, I make the best use of Microsoft Azure & related technology to help organisations in cloud adoption & optimisation. I specialise in re-architecting & migrating existing on-premises workload to Microsoft Azure. I have also comprehensive experience in Architecting, designing & developing solutions using Microsoft development stack. | | | | | | | |
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| **Skills** | | | | | | | |
| **Azure migration** | | **Azure Management & Governance** | | | | | |
| * **Cost calculator** * **Azure Migrate** * **Site recovery** | * **DB Migration compatibility analysis and mitigation** * **Data synchronisation setup** | * **Azure Backup** * **Azure Advisor** * **Azure Monitor** | | | | | * **Azure Automation** * **Azure Resource manager** * **Azure policy** |
| **Azure Security** | | **Azure Networking** | | | | | |
| * **Security DevOps Kit** * **Security Centre** * **Key vault** * **RBAC** | * **Azure AD** * **Azure Firewall** * **DDOS Protection** * **SAS Tokens** * **Azure Firewall** | * **VNET, NSGs configuration & Service endpoints** * **VPN Gateway** | | | | | * **Load balancer** * **Application gateway** * **UDRs** * **Traffic manager** |
| **Azure Development** | | **Application Development** | | | | | |
| * **VM and extensions provisioning** * **App Services** * **Container registry** * **Azure SDK** * **Azure Lab Services** * **ARM Templates** * **Powershell** | * **Azure queue and service bus** * **API Management** * **Logic Apps** * **Azure SQL** * **Data factory** * **Table storage** | * **.NET framework** * **C#, LINQ** * **WCF & Web API** * **ASP.NET MVC and Webforms** * **HTML** * **CSS** * **Umbraco CMS** * **SQL Server** * **Docker** | | | | | * **Database Management including tuning & Index optimisation** * **JQuery & Javascript** * **Classic ASP** * **VBScript** * **T-SQL, Stored Procedures and functions** * **VS & VS Code** * **SQL Server Always on configuration** |
| **Architecting & Design** | | **Others** | | | | | |
| * **Working design pattern knowledge** * **OOPs concept and SOLID principles** * **Proficiency in producing high & low-level design using MS Visio** | * **Detailed design documentation including Bill of materials** * **Agile methodology proficiency – Stories definition and task break down** | * **Project analysis** * **Task estimation** * **Incident management** * **AI - Abbyy OCR/Image processing** | | | | | * **Proficient in delivering client presentation & demos** * **Code review** * **MS Visio** |
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| **Certifications & Awards** | |  | | | | | |
| * **Microsoft Certified - Architecting Azure Solutions (70-534) – Jan 2016** | | | | | | | |
| * **Microsoft Certified Application Developer – 2006** | | | | | | | |
| * **Among top 100 of the 65K participants of Microsoft Security Shootout coding contest organized by Microsoft India in April, 2006.** | | | | | | | |
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| **Work Experience** | | | | | | | |
| **Azure Consultant (contractor) – Risual (Homebased)** | | | | | **March 2019 – July 2019** | | |
| **Design and development Lead for DC Migration & Modernisation – Major UK public sector**  **The requirement was to create a DC in Azure and to migrate 60+ servers from on-prem primary VMWare DC and secondary DR site to Azure.**   * **Analysed the application workload which includes analysing existing app estate, server’s capacity & third party integration requirements.** * **Liaising with project stakeholders and defined stories and tasks for clear execution of the solution components** * **Created Hub-Spoke design of Azure DC** * **Designed and implemented Azure Firewall strategy along with UDR, NSG, etc.** * **Implemented Azure Initiative and Azure policy for governance** * **Designed migration strategy which includes pre & post migration strategy** * **Designed on-prem ASR components and carried out migration using ASR - VMWare to Azure migration** * **IaaC development using Azure CLI and ARM templates** * **Documented High level and Low level design** | | | | | | | |
| **Cloud Solution Architect - KCOM, (Homebased)** | | | | | **Jan 2018 – Feb 2019** | | |
| * **Involved in the qualification of bid process for new opportunities providing relevant technical input into the process.** * **Conducting pre-sales activities including workshop & demos for prospective customers highlighting KCOM’s Azure capability.** * **Defining task, scope and estimation from user stories during discovery sessions.** * **Producing high level, low-level design documents and other technical project related artefacts.** * **Member of KCOM’s CoE and lead in defining and designing framework around Azure best practices, App estate modernisation & Security framework.** * **Acted as SME on Microsoft Azure for project delivery team.**   **DR Solution architect for major eCommerce retailer**  **The requirement is to have a Secondary DR site sighting recent downtime of Primary DR (on-prem) which resulted in loss of business.**   * **Analysed the application workload which includes analysing existing app estate, servers capacity & third party integration requirements.** * **Designed DR strategy with Azure as secondary DC using Azure Site recovery, SQL Server, Azure VM compute, VMWare, Traffic manager, Application gateway considering the following factors:**   + **Compute cost optimisation through Passive DR solution**   + **SQL Server cost optimisation through the use of Azure SQL as Datastore option**   + **License cost optimisation** * **Documented technical design including task breakdown, estimation. Owned delivery of the solution.** * **Received KCOM’s prestigious Start Award for client focused delivery.** | | | | | | | |
| **Azure Architect - Cognizant, London** | | | | **August 2017 – Dec 2017** | | | |
| **Azure advisor for major airport authority’s Baggage handling IoT PaaS solution**   * **Azure technical advisor for high level design formulation for major airport authority IOT PaaS solution using Event Hub, Stream analytics and Power BI.** * **Liaised with solution architect and documenting cloud design and provisioning PaaS workload Tiers for Event Hub, Stream analytics, Data Lake store, SQL Data warehouse, Power BI.** * **Involved in requirement gathering and customer workshops.**   **Onshore Azure architect for a major Advertising agency’s Dynamics AX migration to Azure**   * **Designed IaaS production and non-production workload components.** * **Configured multiple listeners of SQL server Always-on infrastructure on azure internal load balancer.** * **Managed the integration of Palo Alto Firewall & IPS NVA with Azure public load balancer for internet connectivity** * **Incorporated requirement changes to technical design. Documented low level design specification and breaking it into task-based approach for deliverables.** * **POC on Backup, Routing and bespoke security solutions** * **SIT and UAT runbook and task management** | | | | | | | |
| **Senior .NET Developer – TrustMarque, Coventry** | | | | **March 2016 – August 2017** | | | |
| **Technical Architect for TFS Migration for a major Government Medical agency**   * **Lead discovery phase for analysing the gaps of current source code and created branch definition for TFS SaaS** * **Migrated on-premises TFS to Team foundation services (formally VSO)** * **User manual preparation for TFS administrative tasks** * **Solution documentation** * **Client demonstration showcasing capabilities of TFS SaaS vs TFS on-premises**   **Technical Specialist for major government medical agency website upgrade and Azure IaaS migration**   * **Lead the website upgrade project from legacy Umbraco version to minimum supported version.** * **Played lead role in formulating and implementing Source code repository (TFS) with branched check-ins, task management using ALM features of TFS, etc.** * **Customisation of Umbraco CMS to suite client requirements which includes search engine customisation.** * **Managing key client stockholder’s expectation and liaising with third party for requirement gathering, system integration, bug analysis and release management.** * **Analysed and Implemented key deliverables on ecommerce portal which includes Direct Debit, Guest Checkout, Registration process enhancement.** * **Implemented Azure IaaS using reusable Resource manager template scripts which includes Azure Load balancer, VM instances, Availability sets, etc.** * **Key stake holder for P1 incidents.**   **Technical Specialist for major public rail agency BI dashboard solution using Azure Data Factory, Power BI, SQL Azure**   * **Azure Data factory pipelines development from variety of datasets including CSV, GZIP, SQL Server.** * **Custom .NET code development & integration with Azure Data factory to match limitations of ADF pipelines.** | | | | | | | |
| **Azure consultant for Advertising agency, Major NHS Trust & South east council**  **Funded by Microsoft, ‘Azure everywhere’ is a series of client focused workshop to showcase Azure capabilities**   * **Demonstrated Azure PaaS capabilities including Cloud services, WebJobs, WebApps, etc. and implemented a working model of client picked project in Azure Cloud Services at Banner MC in a span of three days.** * **Lead three days’ workshop at NHS Trust’s London office and showcased general and specialist capabilities of Azure. The workshop was received positively by client.** * **Conducted one day Azure workshop for one of South east council and demonstrated Azure HA capabilities which includes intra-region HA capabilities using Traffic Manager and inter-region HA capability using Azure Load Balancer.** | | | | | | | |
| **Tech Lead - HTC Global Services, India** | | | | **Sept 2013 - Jan 2016** | | | |
| **Associate Architect/Senior .NET Developer/OCR SPOC in windows product development for IMG Product enhancements**   * **Successfully Designed and Migrated OCR solution from legacy Abbyy OCR suite to Abbyy OCR 10.5 Suite which increased the OCR accuracy by 30% resulting in increased client's efficiency levels.** * **Data analyses and mining for historical data captured by OCR engine and brought out improvement areas in captured segments by OCR.** * **Provided inputs and deep analysis on the deadlocks and freezes caused by high transaction scenarios in application.** * **Development of modules in C#, SQL to bring about performance improvement during peak-time/high-transaction hours. This includes introduction of multithreading, parallel processing code logic.** * **Proposal creation for forms processing job of the product which handles high volume and intensive CPU cycle of image processing. The proposal utilizes Async components, multithreading and queues for parallel and distributed processing.**   **Architect/Lead .NET Developer for Heartbeat utility application for IMG Product**  **Heart Beat was a pulse tracking solution for IMG product which was designed using publisher subscriber model, IoC, SOLID Principles. This reduced the manual intervention for checking health of various modules of IMG Solution.**  **Migration Specialist & Tech Lead for IMG Product maintenance**   * **Designed and developed pluggable Instrumentation module using Log4.NET, C# and Post Sharp (AOP for .NET). This could be used in multiple solutions with minimalistic code change.** * **Identify SQL Server and .NET optimization techniques in .NET 4.5 so to refactor the modules of IMG Product.** | | | | | | | |
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| **Senior Associate L2 -Platform - Sapient Nitro, India** | | | | **Sept 2009 – Aug 2013** | | | |
| **Providing design and development guidelines for solutions using Industry’s best patterns and practices. Mentoring and coaching pears on new technology trends like MVC, ORM, etc. Preparation of WBS and estimation for tasks and stories. Testing strategy formulation and deriving overall project plan along with Senior Architect. Designing and developing complex modules involving SSO, Identity provider’s integration, etc.** | | | | | | | |
| **Architect/Lead Dev for Enablement - BCG, USA**   * **Data Modelling, Design and Development of SSO Authentication module using SAML protocol, IDP being SABA third party LMS. Senior Developer of NFR components like audit log, Registration, etc.** * **Mentoring team on the ASP.NET MVC Architecture principles and development best practices.** * **Daily client calls on the progress of the SSO core component development and ironing out any issues with the Technical Architect along with the client and other vendors.** | | | | | | | |
| **Associate Architect/Senior ASP.NET MVC Developer and Azure Developer for Blood Donor Portal - NHSBT, UK**   * **Sprint planning, providing guidance and support.** * **Liaise with performance team to setup stress testing infrastructure which involves different matrices for testing like low-load, medium load and high load.** * **Overall repository design creation and technical plan for tier integration.** * **Session finder module development which integrated with Google Maps and location services API.** * **Created Proxy classes & framework for Facebook API and SSO Integration with Facebook and Twitter identity providers for NHS Blood donor Portal, UK.** * **Hybrid connections configuration with on-Premises Web servers & configured SQL Azure for NHS Blood Donor portal in Microsoft Azure.** * **Web roles creation for hosting WCF service and Web application component in MS Azure.** * **Worker role development using storage queues for processing new user registration requests from web roles.** * **WEB API designer for NHS Blood Donation portal for Mobile clients and third party websites consumption.** | | | | | | | |
| **Associate Architect/Senior .NET Developer & CMS Developer for Professional Standards Authority portal, UK**   * **Collaborated with Information Architects, Client Vendors on UX Design improvements and UX feasibility study.** * **Onshore Project SPOC for the offshore team for the Analysis and Design Phase.** * **Designed and developed custom search module from ground up using Lucene .NET API, Sitefinity CMS APIs & C#.** * **Iteration end sprint demo to client and business stakeholders.** * **Data repository architect for domain components using C# and Sitefinity APIs.** * **POC creation and feasibility study for Lucene Search API and guiding team for research work on the search engine areas.** | | | | | | | |
| **Senior ASP.NET MVC Developer for ADNAV Product - Iress Software group, UK**   * **Technical Speaker in Vertex Cluster learning group giving insight on Entity framework, design patterns, ASP.NET MVC, etc.** * **Pluggable Service Layer & Data Repositories design creation using various Design Patterns, Unity Framework, MEF, etc.** * **Senior ASP.NET MVC developer for admin control panel for the product.** * **Defining approach on the change requests using .NET stack and execute it to enable extensibility for future using best practices.** | | | | | | | |
| **Senior Software Engineer - OSCESL (Clifford Chance, GSSC), India** | | | | **Sep 2007 – Aug 2009** | | | |
| **Assistant Team Lead/Senior .NET Developer for FAYG email archival system – Clifford Chance, UK**   * **Developer for outlook plugin using .NET, C#, LINQ which enables tagging mails to the business domain or Ad-Hoc mail as per user needs.** * **Developer of WebUI of FAYG using ASP.NET, C#, WCF, Entity Framework which facilitates web based reporting and other maintenance tasks on the FAYG system.**   **Migration Lead/ Development Lead – Backend and office support applications - Clifford Chance, UK**   * **Analysing, Prioritizing and assigning the tasks on regular basis to group of 5 .NET team members.** * **Liaise with business users to understand the change request and post development demonstration and signing off.** * **Propose application upgrade path to the development team manager and suggest process improvements.** * **Office add-ins development using Visual studio tools for MS office-based plugins.** | | | | | | | |
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| **Application Developer - IBM, India** | | | **Sep 2005 – Aug 2007** | | | | |
| **Application development using .NET stack. Cross platform integration of .NET application with Java web services. Bug management and fixing.** | | | | | | | |
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| **Programmer - PC Solutions Pvt. Ltd., India** | | | **Mar 2004 – Sept 2005** | | | | |
| **Working at American express and provided application development and maintenance support services. Key project includes – E-Payslip (.NET), E-Claims (.NET), Helpdesk ticket management (MS Access)** | | | | | | | |
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| **Programmer - Adroit Infosystem, India** | | | **Sep 2002 – Mar 2003** | | | | |
| **Client server application development using VB 6.0, SQL Server and MS Access** | | | | | | | |
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| **Academics** | | | | | | | |
| * **Masters of Computer Applications (MCA) - 2005** * **Bachelors of Computer Applications (BCA) - 2002** * **Advanced Diploma in Software Engineering (ADSE) from APTECH, India - 2001** * **Senior secondary schooling - 1998** | | | | | | | |
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| **Personal Details** | | | | | | | |
| **Currently residing in Rugby, Warwickshire Right to Work permit (UK residence permit cardholder)** | | | | | | | |