**Prashanth Bathala**

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A highly competent **Azure Architect** with **16+ Years** of expertise designing, implementing, and maintaining Azure-based applications. Proven track record of developing scalable and efficient cloud infrastructures to achieve corporate objectives. Seeking chances to apply Azure architecture knowledge to drive innovation and efficiency.

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| **CORE COMPETENCIES*** .NET Framework, .NET Core, ASP.NET, ASP.NET MVC, ASP.NET Web API, & C# programming
* API Development & RESTful APIs, SRP, OCP, LSP and ISP
* Azure App Service, Functions & Storage,
* Azure SQL Database, Cosmos DB, Networking, Active Directory & DevOps, etc.
* Azure Resource Manager (ARM) templates, Azure CLI, Azure PowerShell & Terraform
* Azure Security Center, Azure Identity and Access Management (IAM), Azure Key Vault, Azure Security Policies, etc.
* Access Control (RBAC), Single Sign-On (SSO), and Multi-Factor Authentication (MFA)
* Azure Virtual Network (VNet), Azure Load Balancer, Azure Traffic Manager, Azure VPN Gateway, Azure Firewall, etc.
* Azure Data Factory, Azure Databricks, Azure Synapse Analytics, Azure HDInsight, Azure Data Lake Storage, etc
* Azure Hybrid Benefit, Azure Arc, Azure Stack & Micro Services
* Azure and AWS Infrastructure Implementation & Maintenance
* Automation, Configuration & Deployment
* Agile Methodologies
* Quality Assurance / ITIL Process
* Incident / Change Management)
* Client Relationship Management
* Team Management/Trainings

**CERTIFICATIONS / COURSE** * Microsoft Azure Architect Technologies (AZ-303)

**EDUCATION*** B-Tech, Electrical & Electronics Engineering, JNTU, India, 2006
 | **PROFILE SUMMARY*** **.NET Technologies**: Proficiency in .NET Framework, .NET Core, ASP.NET, ASP.NET MVC, ASP.NET Web API, and C# programming.
* **API Development:** Skilled in creating and consuming RESTful APIs and integrating third-party APIs.
* **Web Technologies**: Familiarity with Blazor for building interactive web UIs using C#.
* **SOLID Principles**: Strong understanding and application of SOLID principles in .NET development, including Single Responsibility Principle (SRP), Open/Closed Principle (OCP), Liskov Substitution Principle (LSP), Interface Segregation Principle (ISP), and Dependency Inversion Principle (DIP) to enhance code maintainability, flexibility, and testability.
* **Azure Services**: Proficiency in various Azure services such as Azure Virtual Machines, Azure App Service, Azure Functions, Azure Storage, Azure SQL Database, Azure Cosmos DB, Azure Networking, Azure Active Directory, Azure DevOps, etc.
* **Infrastructure as Code (IaC)**: Experience with tools like Azure Resource Manager (ARM) templates, Azure CLI, Azure PowerShell, terraform for provisioning and managing Azure resources.
* **Azure Security**: Knowledge of Azure security best practices, Azure Security Center, Azure Identity and Access Management (IAM), Azure Key Vault, Azure Security Policies, etc.
* **Azure Kubernetes Service (AKS)**: Proficient in deploying, managing, and orchestrating containerized applications using AKS. Experienced in configuring scaling, load balancing, and monitoring for high availability and performance.
* **Identity and Access Management (IAM)**: Skilled in implementing IAM policies using Azure Active Directory to manage user identities and access rights. Expertise in setting up Role-Based Access Control (RBAC), Single Sign-On (SSO), and Multi-Factor Authentication (MFA) to enhance security.
* **Microservices Architecture**: Knowledgeable in designing and deploying microservices-based applications that enhance modularity and scalability. Proficient in implementing service discovery mechanisms, inter-service communication protocols (such as HTTP and gRPC), and resilience patterns to improve fault tolerance.
* **Azure Monitoring and Management**: Understanding of Azure Monitor, Azure Log Analytics, Azure Application Insights, Azure Policy, Azure Automation, and other monitoring and management tools.
* **Azure Networking**: Proficiency in Azure Virtual Network (VNet), Azure Load Balancer, Azure Traffic Manager, Azure VPN Gateway, Azure Firewall, etc.
* **Azure Governance and Compliance**: Familiarity with Azure Policy, Azure Blueprints, Azure Compliance Center, and other tools and processes for ensuring governance and compliance in Azure environments.
* **Data Services**: Knowledge of Azure Data Factory, Azure Databricks, Azure Synapse Analytics, Azure HDInsight, Azure Data Lake Storage, etc., for building and managing data solutions on Azure.
* **Hybrid Cloud Solutions**: Experience with Azure Hybrid Benefit, Azure Arc, Azure Stack, and other solutions for extending on-premises infrastructure to Azure.
* **Integration**: Experience with Azure Logic Apps, Azure Service Bus, Azure Event Grid, Azure API Management, and other integration services for building scalable and reliable solutions
* **.NET Framework and .NET Core**: Proficiency in developing applications using the .NET framework and its latest iteration, .NET Core, including knowledge of C# language features, ASP.NET MVC/Core, Web API, Entity Framework/Core, etc.
* **Architectural Patterns**: Strong understanding of architectural patterns such as MVC, MVVM, RESTful APIs, microservices architecture, serverless architecture, and their practical application in .NET-based solutions.
* **Cloud Platforms**: Experience in deploying and managing .NET applications on cloud platforms like Microsoft Azure, including knowledge of Azure App Services, Azure Functions, Azure SQL Database, Azure Storage, etc.
* **Azure DR**: Developed and implemented comprehensive disaster recovery plans, ensuring minimal downtime and data loss during incidents.
* **Patching**: Managed patch management processes, including the assessment, deployment, and validation of patches across diverse environments.
* **Terraform**: Integrated Terraform with CI/CD pipelines to automate infrastructure provisioning, enhancing deployment efficiency and reducing errors.
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**Work Experience**

**Azure Architect, USA OCT 2024 to Till date**

 **MetLife USA**

* Designed and executed migration strategies for transitioning workloads from IBM Cloud to Microsoft Azure.
* Assessed existing IBM Cloud infrastructure and applications to determine optimal Azure services and architecture.
* Managed data migration, including databases and storage, ensuring minimal downtime and data integrity.
* Implemented Azure networking, security policies, and identity management for a seamless transition.
* Automated deployment pipelines using CI/CD tools to support the migration process.
* Optimized cost and performance by selecting appropriate Azure resources and configurations.
* Collaborated with cross-functional teams to ensure business continuity and compliance during migration.
* Provided post-migration support, monitoring, and troubleshooting to ensure a stable Azure environment. Create and deploy highly available, fault-tolerant, and scalable cloud systems with Azure services including Azure Virtual Machines, Azure Kubernetes Service (AKS), Azure Functions, and Azure SQL Database.
* Implemented IAM techniques for Azure resources, including role-based access control (RBAC) policies.
* Managed user access and rights to Azure services and resources with Azure AD groups and roles.
* Use security best practices including network security groups (NSGs), Azure Security Center, and Azure Active Directory (AAD) to protect data and comply with regulations.
* Automate infrastructure provisioning and administration with ARM templates, PowerShell scripts, and Azure DevOps.
* Managed Azure AD services for secure user authentication and authorization in cloud environments.
* Azure AD Connect was implemented and configured to ensure seamless synchronization between on-premises Active Directory and Azure AD. Added multi-factor authentication (MFA) and single sign-on (SSO) technologies to improve access security and user experience.
* Conducted regular audits to detect and address security vulnerabilities and access risks.
* Setup the Azure API Management solution to host and secure Confidential APIs, including policies and definitions, OAuth 2.0 client credential grant, Azure Active Directory authorization server, audit trail and logging via Azure Event Hubs, and integration with Application Insights.
* Lead and mentor junior team members to develop a culture of learning and creativity.

 **Azure Architect, USA**

 **Virginia Retirement System, USA April 2024 to Oct 2024:**

* Spearheaded the planning phase for migrating a mission-critical .NET application to the Azure cloud platform.
* Created CI/CD pipelines with Azure DevOps to automate the build, testing, and deployment of the.NET application across different Azure environments.
* Experience in PowerApps application and BI development on the Microsoft platform.
* Expertise in developing applications using PowerApps, Canvas, model driven app, CDS, SharePoint, Dynamic 365, Azure C#
* Integrated with source control systems (e.g., Git) and configured automated triggers to enable rapid and reliable software delivery.
* Designed and deployed RabbitMQ-based messaging architectures that enable asynchronous communication between dispersed systems, increasing the scalability and dependability of applications.
* Created and tuned RabbitMQ exchanges, queues, and bindings to efficiently route messages based on application requirements, leading to improved processing times and reduced message loss.
* Collaborated with cross-functional teams to integrate Python scripts into existing systems, ensuring seamless functionality.
* Created and tuned RabbitMQ exchanges, queues, and bindings to efficiently route messages based on application requirements, leading to improved processing times and reduced message loss.
* Developed and maintained PowerShell scripts to automate routine administrative tasks such as user account management, system updates, and data backups, reducing manual effort and improving operational efficiency.
* Leveraged the latest features of TypeScript (TypeScript 4.x) to write type-safe and maintainable code, including optional chaining, nullish coalescing, and template literal types.
* Collaborated with cross-functional teams to assess infrastructure, identify obstacles, and develop a migration strategy.
* Lead the design and execution of Azure-based solutions for enterprise clients, ensuring that they meet business needs and follow industry best practices.
* Collaborate with cross-functional teams to evaluate existing infrastructure, identify opportunities for improvement, and create migration strategies to Azure cloud services.
* Create and deploy highly available, fault-tolerant, and scalable cloud systems with Azure services including Azure Virtual Machines, Azure Kubernetes Service (AKS), Azure Functions, and Azure SQL Database.
* Implemented IAM techniques for Azure resources, including role-based access control (RBAC) policies.
* Managed user access and rights to Azure services and resources with Azure AD groups and roles.
* Use security best practices including network security groups (NSGs), Azure Security Center, and Azure Active Directory (AAD) to protect data and comply with regulations.
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* Lead and mentor junior team members to develop a culture of learning and creativity.

 **Technical Architect**

 **Aggne Solutions, India Oct 2023 to April 2024**

* Developed and implemented IAM strategies to govern access control across Azure resources, including role-based access control (RBAC) policies.
* Orchestrated Azure AD groups and roles to manage user access and permissions for various Azure services and resources.
* Implement security best practices, including network security groups (NSGs), Azure Security Center, and Azure Active Directory (AAD), to ensure data protection and regulatory compliance.
* Automate infrastructure provisioning and management tasks using Azure Resource Manager (ARM) templates, PowerShell scripts, and Azure DevOps.
* Responsible for designing and developing Banking CMR web applications using ASP.NET Core, MVC, Web API, Angular, Azure, AWS, and Azure Pipeline.
* Developed cross-platform web applications and Progressive Web Apps (PWAs) using Angular Universal and Angular Service Worker to enhance offline capabilities and performance.
* Implemented PWA features such as service worker caching, push notifications, and background sync to deliver reliable and engaging user experiences across devices and network conditions.
* Ensured compatibility with various web browsers and devices by conducting thorough testing and implementing polyfills and fallback mechanisms as needed.
* Finding the best tech solution among all possible to solve the existing business problems.
* Collaborate with clients, business analysts, developers, and DevOps teams to define project requirements and specifications. Troubleshoot cloud issues and manage all cloud-based resources.
* Design solutions that match perfectly with the enterprise environment. Recommend the best practices for the whole solution. Bridges the gap between business problems and technology solutions.
* Design and deployment of enterprise-wide complex cloud environments on a global scale.
* Reduce overhead and infrastructure costs by consolidating and deploying many legacy applications to cloud platforms. Experienced implementing.NET Application Solutions in large-scale deployments.
* Good understanding of Spark Architecture including Spark Core, Spark SQL, Snow SQL, Data Frames, Driver Node, Worker Node, Stages, Executors and Tasks.
* Leveraged Scala and Python programming languages extensively within Databricks Notebook, showcasing an in-depth understanding of coding practices to optimize and enhance data processing efficiency.
* Extract Transform and Load data from Sources Systems to Azure Data Storage services using a combination of Azure Data Factory, T-SQL, Spark SQL and U-SQL Azure Data Lake Analytics.

**Senior Azure Consultant**

**Hitachi Solutions, India Dec-2021 to Oct-2023**

* Led the effort to refactor the .NET application codebase to leverage Azure-native services, such as Azure App Service, Azure SQL Database, and Azure Functions, optimizing performance and scalability.
* Implemented state management tools such as NgRx to manage complicated application states and enable efficient data flow within Angular apps.
* Ensured strict type checking and improved developer productivity by enforcing strict TypeScript compiler options and leveraging type inference capabilities.
* Integrated Bootstrap 5 framework into Angular projects to leverage its modern CSS utility classes, responsive grid system, and enhanced customization options.
* Customized Bootstrap 5 styles and components using SASS/SCSS preprocessor to create unique and visually appealing user interfaces while adhering to design specifications.
* Used performance profiling and optimization approaches to improve the application's efficiency and resource consumption in the Azure environment.
* Established privileged identity management (PIM) workflows to enforce least privilege access and mitigate insider threats.
* Collaborated with cross-functional teams to define and enforce identity governance policies and standards.
* Provided technical guidance and support to teams for implementing IAM best practices and security controls.
* Designed and implemented Azure-based solutions for clients across various industries, including finance, healthcare, and manufacturing.
* Conducted cloud readiness assessments and developed migration roadmaps to transition on-premises workloads to Azure cloud services.
* Optimized cost and performance of Azure environments through rightsizing, utilization analysis, and implementing reserved instances.
* Implemented CI/CD pipelines using Azure DevOps to automate application deployment and configuration management.
* Conducted training sessions and workshops to educate clients on Azure best practices and facilitate knowledge transfer.
* Developed Spark applications using Pyspark and Spark-SQL for data extraction, transformation, and aggregation from multiple file formats for analyzing & transforming the data to uncover insights into the customer usage patterns.
* Worked on google Big Query, Hadoop, PySpark, Spark SQL and hive used to load, transform data and finish a technical design review.
* Developed solutions for high volume data stream ingestion, processing, and low latency data provisioning using Hadoop Ecosystems Hive, Pig, Scoop, and Kafka, as well as Python, Spark, Scala, NoSQL, Nifi, and Druid.
* Implemented Copy activity, and Custom Azure Data Factory Pipeline Activities for On-cloud ETL processing.
* Created custom migration scripts and ETL workflows with Apache Spark, Apache Sqoop, and other data integration technologies to extract data from source systems, convert it to the appropriate format, and load it into the destination environment with little downtime and data loss.
* Created Azure services using ARM templates (JSON) and ensured no changes in the present infrastructure while doing incremental deployment and Managed the Azure Data bricks, Azure Data Factory, Azure Cosmos DB and Azure Stream Analytics, Azure Event Hubs, Azure Service Bus.

**Technical Architect**

**DXC Technologies, India April 2020 to May 2021**

* Responsible for designing and developing Banking CMR web applications using ASP.NET Core, MVC, Web API, Angular, Azure, AWS, and Azure Pipeline.
* Developed cross-platform web applications and Progressive Web Apps (PWAs) using Angular Universal and Angular Service Worker to enhance offline capabilities and performance.
* Implemented PWA features such as service worker caching, push notifications, and background sync to deliver reliable and engaging user experiences across devices and network conditions.
* Ensured compatibility with various web browsers and devices by conducting thorough testing and implementing polyfills and fallback mechanisms as needed.
* Finding the best tech solution among all possible to solve the existing business problems.
* Collaborate with clients, business analysts, developers, and DevOps teams to define project requirements and specifications. Troubleshoot cloud issues and manage all cloud-based resources.
* Design solutions that match perfectly with the enterprise environment. Recommend the best practices for the whole solution. Bridges the gap between business problems and technology solutions.
* Design and deployment of enterprise-wide complex cloud environments on a global scale.
* Reduce overhead and infrastructure costs by consolidating and deploying many legacy applications to cloud platforms. Experienced implementing.NET Application Solutions in large-scale deployments.
* Ingested data into Azure Blob storage and processed the data using Databricks. Involved in writing Spark Scala scripts and UDF's to perform transformations on large datasets.
* Utilized Azure Database Migration Service to migrate on-premises databases to Azure SQL Database, ensuring minimal downtime.
* Developed ETL pipelines using Apache Spark and Delta Lake, enabling efficient data ingestion, processing, and storage.
* Setup and maintain the Azure SQL Database, Azure Analysis Service, Azure SQL Data warehouse, Azure Data Factory, and Azure SQL Data warehouse.

**Technical Architect**

 **L&T Information Technology, India Jan 2018 to April 2020**

* Development of eCommerce and CMS web applications using ASP.NET, MVC, Web API, Azure, AWS, Azure DevOps, AngularJS, Redis, Ionic, KendoUI, SignalR, and Windows Service.
* Azure technical readiness plans in place for each customer for cloud application development practice.
* Defining features, phases and solution requirements. Maintain quality and ensure the responsiveness of applications. Understanding and implementation of security and data protection.
* Libraries: AutoMap per Fluent Validation, Autofac, Hangfire, NLog, RestSharp, xUnit, Moq, Bogus
* Ensured data security and compliance by implementing row-level security, encryption, and auditing features in Azure Synapse Analytics.
* Design and implement data storage solutions using Azure services such as Azure SQL Database, Azure Cosmos DB, and Azure Data Lake Storage
* Create and manage data processing jobs using Azure HDInsight and Azure Stream Analytics.

**Technical Team Lead**

**CGI, India & Canada March 2014 to Jan 2018**

* Technical leadership for .NET development teams, providing guidance on coding standards, best practices, and architectural decisions.
* Managed and mentored a team of .NET developers, assigning tasks, tracking progress, and conducting performance evaluations.
* Designed and implemented scalable and high-performance .NET applications, ensuring adherence to industry standards and best practices.
* Conducted regular code reviews to maintain code quality, identify areas for improvement, and ensure consistency across the codebase.
* Proven ability to troubleshoot and solve complex technical issues in .NET applications, both during development and in production environments.
* Collaborated with cross-functional teams including QA, DevOps, and product management to ensure smooth project delivery from development to deployment.
* Encoded and decoded JSON objects using PySpark to create and modify the data frames in Apache Spark.

 **Technical Team Lead**

 **Prime Key Solutions, India July 2012 to March 2014**

* Stayed updated with the latest .NET technologies, tools, and frameworks, and implemented process improvements to enhance team productivity and efficiency.
* Developed project plans, estimated effort for development tasks, and effectively allocated resources to meet project deadlines.
* Implemented comprehensive testing strategies including unit tests, integration tests, and collaborated with QA engineers to ensure software quality.
* Documented technical designs, architectural decisions, and project-related information to maintain clarity and transparency within the team.
* Developed simple and complex Map Reduce programs in Java for Data Analysis on different data formats.

**Senior Software Engineer**

**AHS, India Nov 2010 to July 2012**

* Design, develop, and maintain .NET-based software applications, ensuring high quality, performance, and scalability.
* Write clean, efficient, and well-documented code in C#, VB.NET, or other .NET languages, adhering to coding standards and best practices.
* Participate in architectural discussions and decisions, contributing to the design of scalable and maintainable software solutions built on the .NET framework.

**Software Engineer**

**PhyCare Solutions, India Jan 2008 to March 2010:**

* Conduct unit testing, integration testing, and debugging to ensure the reliability and correctness of .NET applications.
* Analyze and troubleshoot complex technical issues, identifying root causes and implementing effective solutions.
* Collaborate with cross-functional teams including other developers, QA engineers, product managers, and designers to deliver high-quality software solutions.
* Containerization and Orchestration: Familiarity with containerization technologies such as Docker and container orchestration platforms like Kubernetes for deploying and managing .NET applications in scalable and portable environments.
* Database Technologies: Proficiency in working with relational databases (e.g., SQL Server, MySQL) and NoSQL databases (e.g., Cosmos DB, MongoDB) in .NET applications, including data modeling, querying, and performance optimization.
* Testing and Quality Assurance: Experience with unit testing frameworks (e.g., NUnit, xUnit), mocking libraries (e.g., Moq), continuous integration/delivery (CI/CD) pipelines, and other practices/tools for ensuring the quality and reliability of .NET solutions.