

HARVENDRA SINGH

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PROFESSIONAL SUMMARY:

- IT Delivery Manager – Cloud Engineering & Architecture with 18+ years of experience leading and mentoring teams in designing, developing, and deploying secure, scalable, and cost-effective cloud solutions.
- Played a key role in establishing and guiding a high-achieving cloud engineering team, supporting professional growth through coaching and mentorship.
- Possess strong communication skills, bridging the gap between technical and non-technical audiences by clearly explaining complex cloud engineering concepts.
- Design, deploy, maintain, and lead the implementation cloud-based enterprise infrastructure and applications across Microsoft Azure, Google Cloud Platform (GCP), and Pivotal Cloud Foundry.
- Skilled in microservices architecture with ASP.NET, Spring Boot, containerization with Azure Kubernetes Service, and utilizing Azure DevOps, Terraform, and automation for efficient deployments.
- Deep knowledge of cloud services including Azure Storage, Cosmos DB, Azure SQL, Event Grid, Service Bus, Key Vault, API Management, Traffic Manager, App Gateway, Front Door, Azure Virtual Network (VNet), Private Endpoints, App Services, Function Apps, Azure Kubernetes, Automation Account, Azure Databricks, and Container Registry.
- Proven experience leveraging Google Cloud Platform (GCP) services, including App Engine (Flex & Standard), Pub/Sub, BigQuery, Google Container Registry (GCR), and Google Kubernetes Engine (GKE), to design and deploy scalable cloud solutions.
- Expertise in designing and implementing event-driven microservices architecture using ASP.NET, C#, and RESTful APIs.
- Proficient in deploying and managing containerized applications using Azure Kubernetes Service (AKS) for scalability and high availability.
- Experience in automating infrastructure provisioning and CI/CD pipelines using Azure DevOps and Terraform, maximizing deployment efficiency and reducing errors.
- Proven track record in analyzing and optimizing cloud resource costs across multiple platforms.
- Strong understanding of security best practices and compliance requirements for chosen cloud platforms.
- Experienced in functional requirements analysis, technical documentation, and leading both onshore and offshore development teams.

CERTIFICATION:

- Certified Kubernetes Administrator
- Microsoft Certified: Microsoft Azure Architect Technologies
- Microsoft Certified: Azure Developer Associate
- Microsoft Certified: Azure Fundamentals

EDUCATION:

- Master of Computer Application, India
- Bachelor of Science, India

PROFESSIONAL EXPERIENCE:

Since Feb, 2021 **Publix Super Markets Inc.**

Period Nov 2024 – Present

Role IT Delivery Manager (Cloud Engineering & Architecture)

Responsibilities

- Led and mentored the Cloud Engineering team, coordinating cross-functional efforts with development teams to align technical execution with strategic business objectives on the Azure platform.
- Provided technical leadership for the architecture and implementation of scalable Azure cloud infrastructure supporting high-availability web and mobile applications.
- Spearheaded the design, strategic planning, and successful delivery of robust and scalable cloud architectures within Microsoft Azure.
- Championed and mandated engineering excellence through standardized IaC, CI/CD pipelines, and secure AKS configurations for containerized workloads.
- Oversee the adoption and implementation of modern DevOps practices and tools.
- Led the integration and optimization of modern DevOps methodologies and toolchains (Azure DevOps, Git, Argo CD) to enhance deployment frequency, stability, and team velocity.
- Partnered with feature teams to evaluate the integration impact of new cloud technologies, translating requirements into effective Azure-based solutions.
- Established and enforced rigorous standards to ensure all Azure solutions delivered high levels of quality, supportability, reliability (SLAs/SLOs), scalability, security, and performance.
- Ensured compliance with enterprise team by embedding architectural, security, and control requirements into the Azure solution design and deployment lifecycle.

Project Location Lakeland, FL

Period Feb 2021 – Oct 2024

Role Principal Software Engineer/Cloud Architect

Responsibilities

- Led the design, configuration, deployment, and ongoing management of Azure Kubernetes Service (AKS) clusters, establishing a production-ready, fault-tolerant, and auto-scaling environment optimized for performance and scalability of containerized services.
- Designed, developed, and deployed scalable and maintainable microservices architectures utilizing event-driven communication and Domain-Driven Design (DDD) principles. This

approach ensures decoupled components, improved responsiveness, and long-term maintainability.

- Implemented highly available, scalable, and secure cloud solutions on Microsoft Azure for complex applications, ensuring active-active regions for redundancy.
- Optimized costs for Microsoft Azure resources, ensuring efficient cloud resource utilization.
- Leveraged Azure DevOps and terraform to automate infrastructure provisioning and CI/CD pipelines, achieving streamlined and efficient deployments.
- Designed and deployed both StatefulSets and Stateless deployments within Kubernetes clusters, catering to diverse application requirements using Helm.
- Modernized monolithic services by developing and deploying them to Azure Kubernetes Service and Azure App Service, enabling scalability and agility.
- Designed and implemented a secure and scalable cloud infrastructure on Microsoft Azure, leveraging a variety of services for data management (Storage, Cosmos DB, Azure SQL), communication (Event Grid, Service Bus), security (Key Vault), traffic management (Traffic Manager, App Gateway, Front Door), application deployment (App Services, Function Apps, Azure Kubernetes), and automation (Automation Account).
- Leveraged Dapr, a platform-independent runtime, to streamline service-to-service communication within the microservices architecture, enabling seamless integration with diverse cloud services.
- Implemented Argo CD and Argo Rollout for GitOps-based deployments with advanced strategy (blue-green), minimizing downtime and risk. Additionally, utilized Argo Workflows to automate complex application tasks within the cloud.

Project Location Lakeland, FL

2012 - 2021 **Tata Consultancy Services**

Client Name Humana Inc.

Position Architect

Responsibilities

- Designed and deployed cloud infrastructure on platforms like Microsoft Azure and Google Cloud Platform (GCP) using Terraform.
- Implemented microservices architectures using diverse technologies like Azure App Service, Google App Engine (Flex & Standard), and Pivotal Cloud Foundry.
- Managed deployments, maintenance, and troubleshooting of applications across these cloud platforms.
- Employed Agile methodologies throughout the development lifecycle, from requirement analysis to deployment.
- Developed full-stack web applications using ASP.NET MVC, Web API, C#, TypeScript, and Angular.
- Implemented a layered architecture for maintainability and separation of concerns (Business Logic, Data Access).
- Developed secure applications with role-based access control and implemented unit testing for quality assurance.
- Designed and managed SQL Server databases, including stored procedures, functions, and views.
- Performed ETL (Extract, Transform, Load) operations using SSIS and created reports with tools like Power BI and SSRS.
- Established CI/CD pipelines with Azure DevOps for automated deployments.

- Utilized SonarQube and CheckMarx for security scans and code coverage analysis.
- Utilized various web services (WCF, RESTful), XML and JSON for data exchange.
- Leveraged Azure cloud services and tools like Storage Explorer for data management.
- Implemented complex T-SQL queries and employed JavaScript for client-side validation.
- Owned the implementation and deployment of web services, APIs, and applications.
- Experienced with version control (TFS) and participated in bug fixing activities.
- Optimized application performance through performance tuning techniques.
- Mentored team members on coding standards and best practices.

2006 - 2012

HCL Technologies Ltd

Client Name HCL Technologies Ltd

Role Technical Lead

Responsibilities

- Gathered requirements, translated them into technical specifications, and employed Agile methodologies for efficient development and delivery of custom web applications.
- Developed and maintained web applications using ASP.NET, ASP.NET MVC, C#, HTML, CSS, and JavaScript, ensuring a user-friendly experience with custom components and reports.
- Implemented N-tier architecture for separation of concerns and data retrieval using SQL Server and ADO.NET, including stored procedures, triggers, and LINQ queries.
- Utilized XML Web Services and Service Components for integration, provided technical guidance, and resolved complex application issues.
- Followed established maintenance and documentation procedures for audit compliance, conducted thorough testing and troubleshooting for high-quality applications.
- Utilized UML notations for visual representation of system design and participated in SSRS deployment for reporting needs.