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**Akhilesh Vaduka**

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**Location: Celina, TX**

**Summary:**

9+ Years Highly skilled Solutions Architect (Cloud) with extensive experience in designing and implementing cloud-based solutions. Proficient in Azure, DevOps, Terraform, Application development and app security, ensuring optimal performance, scalability, and security of cloud environments. Proven track record in driving automation, collaborating with cross-functional teams, and delivering cost-effective and efficient solutions. Microsoft Azure Solution Architect and Azure Security Engineer certified professional with a strong foundation in ITIL. Committed to delivering cutting-edge cloud solutions aligned with business objectives that are value driven.

**Education:**

* Master’s in international business management, University of Bedfordshire
* Bachelors in Electronics and Communication Engineering, Bharath University.

**Certifications:**

* Microsoft Azure Solution Architect
* AWS Solution Architect
* Azure Security Engineer
* ITIL Foundation

**Technical Skills:**

|  |  |
| --- | --- |
| **Cloud Technologies:** | Azure (Compute, Networking, Storage, Security, Governance), Azure ADF & Integration Runtime and AWS services. |
| **DevOps and Automation:** | Azure DevOps, Git Ops, Terraform, PowerShell, Argo CD, JFrog. |
| **Cloud Security:** | ARB/TRB Process, Identity and Access Management, SSO, MFA, PAM, Secrets Management, Certificates, Audit Logs, Azure RBAC, Azure AD (Entra ID) and Entra ID Domain Services, Disk Encryption, SSE. |
| **Monitoring and Alerting:** | Dynatrace, Splunk, Application Insights, Log Analytics. |
| **Networking:** | VPNs, Hub and Spoke, Load Balancers, NSG, ACLs, Firewalls, Express Routes, Private Endpoints, DNS Resolvers, Private Zones and Private link Scopes, Azure Front Door, Application Gateway, Traffic Manager and Azure ARC. |
| **Storage:** | BLOB, Queues, SAS, Azure Data Lake Gen 2 (Migrations). |
| **Containers:** | Docker, AKS, Istio Service Mesh and Calico Policies. |
| **Programming Languages:** | C#, .NET, .NET Core, Python. |
| **Database Technologies:** | SQL Server, Cosmos DB, Azure Storage, Redis,PostgreSQL, Mongo DB. |
| **Web Development:** | Angular, HTML, CSS, JavaScript, jQuery, AJAX, React (basics), and Node.js. |
| **Integration and API Management:** | Azure API Management, Logic Apps, Azure Service Bus, RabbitMQ, Azure IOT, Event Grid and Event Hub. |
| **Business Intelligence:** | Power BI, Tableau. |
| **Version and Source Control:** | Git, Tortoise SVN, Version One and TFS. |
| **Operating Systems:** | Windows and Linux. |

**Work Experience:**

**Role: Cloud Solutions Architect, Texas October 2023 – Current**

**Client: SBD**

* Designed and deployed over 10+ scalable, high-availability cloud architectures using Azure Arc, significantly enhancing system resilience and security.
* Developed a comprehensive resource tagging strategy for 400+ cloud resources, achieving a 15% reduction in cloud expenditures through effective resource management.
* Led the integration and management of SQL clustering and high availability solutions, ensuring a 99.99% uptime for critical database systems.
* Implemented a Python-based ETL process to enhance data migration from on-premises systems to ADLS and Snowflake, doubling efficiency and phasing out outdated ADF frameworks.
* Rolled out comprehensive encryption strategies and integrated Azure Update Manager, markedly reducing the organization's risk exposure during security audits.
* Orchestrated the migration and modernization of legacy systems to cloud environments, reducing operational costs by 20% and improving deployment speed by 40%.
* Spearheaded cross-functional team collaboration to translate complex business requirements into robust and scalable cloud solutions, improving alignment with business goals by 20%.
* Managed the implementation of site reliability and disaster recovery strategies, including site-to-site VPNs and network peering arrangements.
* Automated deployment pipelines using Terraform and Azure DevOps, significantly increasing efficiency in CI/CD processes.
* Directed the development and implementation of security protocols, including encryption strategies and Azure Update Manager, enhancing system security and compliance.
* Authored and maintained comprehensive documentation for system standards, policies, and procedures, reducing incident response times by 20%.
* Facilitated continuous improvement by identifying and resolving over 40 systemic issues, boosting application stability and performance by 35%.
* Implemented and maintained innovative cloud solutions such as IoT, Event Hub, and Azure Front Door, optimizing operational processes and data flow management.
* Implemented cloud security measures, including role-based access controls, managed identities, and secure access management.
* Worked on Vulnerability Management process, Qualys scan, resolution of issues with vendors and issue tracking.

**Role: Cloud Adoption – Enterprise architect Oct 2020 – Oct 2023**

**Client: Humana**

* Initiated and led multiple application migrations to Azure, enhancing system scalability and security while reducing infrastructure costs.
* Set up and optimized Azure DevOps environments, streamlining Terraform implementations and automating cloud deployments.
* Developed disaster recovery frameworks and conducted regular system audits to ensure compliance with healthcare regulations and standards.
* Engineered roadmaps for auto-scaling, microservices, and containerization across 10+ projects, achieving a 30% increase in deployment speed and system flexibility.
* Conducted extensive reviews of tech debt across projects, devising strategies that cut maintenance costs by 25%.
* Directed the overhaul and optimization of tech stacks for 10+ cloud solutions, leading to a 30% cost reduction and a boost in resource efficiency.
* Collaborated with IT security teams to enhance data protection measures, including implementing MFA, SSO, and PAM solutions.
* Conducted cost-reduction analyses, identifying, and implementing efficiency improvements that reduced cloud spending by over 40%.
* Engineered cloud-agnostic solutions and service mesh architectures using AKS, improving system resilience and operational agility.
* Developed and implemented network security measures, including advanced Calico policies and network segmentation, to safeguard sensitive health data.
* Led technology evaluation and platform optimization projects, which involved extensive stakeholder engagement and strategic planning.
* Facilitated the integration of cutting-edge cloud technologies, including streaming and messaging platforms, to enhance enterprise data management and analytics.
* Managed a team responsible for the continuous update and security compliance of cloud infrastructure, using tools like Azure Sentinel for enhanced threat detection.
* Designed and prototyped new cloud solutions, leveraging IT4IT principles to align IT services with business needs.
* Developed and maintained run books/playbooks for cloud operations and maintenance, including activities like MIM (Monitoring, Incident Management), Hypercare, and performance improvements.
* Implemented monitoring and alerting systems using tools like Dynatrace and Splunk.
* Troubleshoot issues during call for Production deployed apps and provided RCA’s.
* Managed secrets, certificates, and their auto-renewal processes to ensure the integrity and confidentiality of sensitive data.
* Implemented logging and audit logs for compliance and governance purposes.
* Collaborated with stakeholders to define and enforce cloud governance standards and guardrails.
* Worked on reviewing and providing inputs to security blueprints.
* Knowledge in HIPPA, PCI, PHI, PII data and other guidelines and frameworks.

**Role: Development Lead / Technical Lead July 2018 – Oct 2020**

**Client: Tek Commands**

* Oversaw a team of cloud engineers focusing on developing and migrating applications to Azure, enhancing functionality and compliance.
* Led .NET Framework to .NET Core migrations across multiple product lines, significantly improving system performance and maintainability.
* Managed integration projects involving Azure API Management and Logic Apps, which streamlined operations and enhanced service delivery.
* Developed Functions as a service to provide and process real time EDI transactions.
* Designed and implemented containerized solutions using Docker and Kubernetes, reducing system complexity, and improving scalability.
* Developed comprehensive security strategies, integrating OKTA and Duo for robust identity and access management.
* Developed Angular SPA application, ADA compliant, embedded videos, documents.
* Spearheaded the development of microservices architectures, facilitating seamless integrations across dispersed applications and platforms.
* Integrated applications and platforms using Azure Service Bus, Cosmos DB, RabbitMQ, Azure Functions, Key Vaults and Logic Apps.
* Configured Single Sign-On (SSO), Multi-Factor Authentication (MFA), and Privileged Access Management (PAM) for enhanced security.
* Conducted performance tuning of cloud-based applications, significantly reducing latency, and improving user experience.
* Drove the adoption of advanced programming methodologies and tools, enhancing team skills and product quality.
* Worked on No SQL databases, structured, semi structured, unstructured data, document data. Configured and increased throughput in Cosmos DB.
* Implemented logging and audit logs for compliance and governance purposes.
* Managed customer onboarding processes, ensuring smooth transitions to new cloud environments.

**Role: Software Development Lead / Technical Lead June 2014 – May 2018**

**Client: Ally Financial**

* Led the development and modernization of .NET /C# applications, significantly enhancing functionality and user interface designs.
* Managed a team of developers in executing build and deployment processes, incorporating automation tools to streamline operations.
* Developed and maintained extensive documentation, including system reports using Crystal Reports and SSRS, to support business analysis and decision-making.
* Implemented rigorous security measures and conducted regular vulnerability assessments to maintain high security standards.
* Facilitated product management and business analysis activities, translating customer needs into actionable development plans.
* Initiated and led several proof-of-concept projects to explore emerging technologies and assess their potential impact on business operations.
* Implemented functionality such as Searching, Filtering, Sorting, Validating, Categories.
* Experience in building and consuming RESTful APIs, JSON and XML services, throttling and protocols such as TLS, HTTPS.
* Optimized long running queries, performance, and latency improvements.

**Additional Responsibilities:**

* Mentored and coached junior team members, fostering a culture of learning and continuous improvement.
* Conducted training sessions and workshops to educate teams on cloud best practices and new technologies.
* Actively participated in tech community events, staying updated with the latest industry trends.
* Documented steps to execute, provided KT and demo sessions.
* Performed Ad hoc task, POC’s, bring out of the box solutions.

**Values and Performance**

* **Results and Achievements**: Image Rotation capabilities for VM/VMSS deployed in cloud to be complaint with the latest updates, without any downtime using rolling updates without major changes to existing process. Reduced costs from switching between use of Cloud resources. Reduced Azure costs down by 40-50% for each type of resource usage by providing and implementing effective solutions.
* **Impact on Business:** Reduce deployment and provisioning times, simplified onboarding customers process and tailored deployments, Compliant Apps and Infra. Seamless integration between on prem to cloud and inter cloud.
* **Leadership and Collaboration**: Stepped up to have additional roles and responsibilities working in SAFE Agile as Cloud Advocate, Product Owner, where led cross-functional teams, collaborated effectively with stakeholders, vendors, and partners.
* **Continuous Learning and Professional Development:** Azure AI, terraform and Data certifications/learnings are in progress. Interested in learning new capabilities and domains that are required at work as on demand.