Yamini Singh

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SOLUTIONS ARCHITECT-SENIOR DEVOPS ENGINEER-MANAGER

Distinguished Senior Digital & Technology Architect with a decade of profound experience in IT consulting and delivery, showcasing an expansive track record in Enterprise Technology Architecture across Cloud, Application, Integration, Security, and IT Strategy. My professional journey is underpinned by a solid foundation in software engineering and development, evolving into a leadership role where I have successfully worked as architect and led teams of DevOps engineers towards innovative solutions and strategic enterprise objectives.

Certified Azure Solution Architect (9+ years) | Proven ability to design & deploy high-performance data architectures (Big Data) on Databricks. Skilled in Azure & DevOps practices (CI/CD) to deliver scalable solutions using Python/Scala. Passionate about guiding clients & driving successful data-driven projects.
I leverage strong communication and collaboration skills to gather client requirements and foster successful client relationships. Adept at agile project management, I excel at prioritizing tasks for efficient delivery within sprint cycles, ensuring the timely execution of data-driven solutions.

Core Competencies Include:

Data Engineering | Data Platforms | Analytics | Python | Scala |Azure| Apache Spark™ | Spark Runtime Internals | CI/CD for Production Deployments | MLOps | End-to-End Data Architectures | Technical Project Delivery | Documentation | White-boarding | Client Management | Conflict Resolution | DevOps Automation | Continuous Integration/Continuous Deployment | Infrastructure as Code | Configuration Management | Docker and Kubernetes | Cloud Computing | Pre-Sales | Scripting | Virtualization Technologies | System and Network Security | Monitoring and Logging | Solution Architecture | Cloud Migration | ARM | Microservices Architecture | DevSecOps | Serverless Computing | Identity and Access Management | Azure Data Services | Performance Optimization and Scalability | Finance | SRE | Big-Data | Databricks | Spark | Design and Implementation

PROFESSIONAL SUMMARY

Solution Architect and Senior Operations Lead | May 2023 – December 2023
Peoples Partnership (UK)

- **Spearheaded** technical engagements with clients in the banking sector, leveraging deep expertise in Data Engineering and Big Data technologies including Apache Spark™.
- **Independently designed and delivered** technical solutions, addressing client pain points and demonstrating the tangible business value of data-driven architectures built using Spark™. Utilized programming languages like Python (mention others if applicable) to bridge technical complexities with clear and concise communication.
- **Integrated** Big Data solutions seamlessly with client systems on Azure cloud platforms, ensuring optimal scalability and efficiency for Spark-based processing.
- **Orchestrated and optimized** DevOps practices within a team of engineers, achieving a remarkable **100% improvement** in project execution efficiency and significantly accelerated software delivery timelines for Spark-powered data pipelines.
- **Managed and deployed** Azure cloud infrastructure using Infrastructure as Code (IaC) tools like Bicep and Terraform, alongside containerization technologies, for automated, reliable deployments, and ensured optimal resource allocation for Spark workloads.

Solution Architect| March 2022 - December 2022
HSBC (UK)

- **Solution Architect:** Designed and implemented efficient workflows, dashboards, and reports utilizing data insights. Led the development of business process automation solution, boosting operational efficiency by 60% for Customers based in APAC region.
- **Big Data Architecture & Cloud Integration (Azure):** Engineered complex applications on the Microsoft Dynamics CRM platform with Azure integration. Possess experience designing and deploying scalable data architecture. Led the integration of this with client system for enhanced functionality and user experience.
- **DevOps Leadership & Performance Optimization:** Managed a team of DevOps engineers, ensuring adherence to KPIs and SLAs. Implemented DevOps best practices, resulting in a 95% reduction in system downtime.
- **Collaborative Design & Scalable Infrastructure:** Collaborated with senior architects on defining software, hardware, security, and network requirements for data-driven solutions. Utilized Infrastructure as Code (IaC) tools and containerization technologies for building and managing secure and scalable cloud infrastructure.

Lead DevOps Engineer| October 2021 - January 2022
Accenture (UK)

- **Migration & Integration:** Led migration of legacy projects and centralized VCS source code repository to Accenture DevOps platform and Bitbucket respectively, optimizing collaboration and version control processes.
- **CI/CD Pipeline Implementation:** Spearheaded the creation of CI/CD pipelines in Jenkins, streamlining software build and deployment processes. Established external slaves/agents to Jenkins master for enhanced scalability and performance.
- **Training & Documentation:** Provided comprehensive training to team members on new tools and processes, ensuring smooth adoption. Created documentation for both existing and new processes to facilitate knowledge transfer and consistency.
- **Cloud Deployment & Automation:** Successfully deployed containerized applications on Serverless Cloud Platform (AWS ECS Fargate) and conducted POCs on GKE & Cloud Run for evaluation. Automated AWS resources deployment using CloudFormation for consistent and reliable infrastructure provisioning.
- **Innovation & Research:** Conducted Proof of Concepts for emerging technologies, enabling informed decision-making and efficient resource allocation. Set up AWS Code Pipeline for CI/CD of full-stack app deployment on EC2 instances, aligning with best practices for efficient software delivery.

	Lead Azure DevOps Engineer| March 2020 - August 2021
	Big Data Marketers

- Public DevOps and Azure Lead.
- Partnered with clients, eliciting cloud solution requirements.
- Led development of IaC & CI/CD pipelines for public cloud deployments.
- Optimized deployment processes, achieving a 30% reduction in application delivery times.

	DevOps Engineer/Trainer | December 2017 - February 2020

- **Big Data Architect** : Hands-on experience with Azure DevOps (CI/CD), Azure Data Factory, and cloud infrastructure (Azure).
- Defined cloud technology roadmaps for Big Data solutions, aligning with business goals.
- **Client Collaboration & Data Engineering**: Partnered with clients to understand data challenges and designed scalable data architectures using Azure Synapse Analytics (or Azure HDInsight, Azure Data Explorer) for efficient data processing.

	DevOps Engineer| August 2014 – November 2017
	Big Data Marketers

- Executed robust security measures and monitoring solutions to fortify system integrity.
- Optimized infrastructure scalability by implementing Docker and Kubernetes for container orchestration, providing a more flexible and scalable environment.
- Drove the enhancement of Infrastructure as Code (IaaC) principles, utilizing different tools to skillfully define and manage infrastructure.

Project Achievements

- Led initiatives resulting in $1.75M cost savings through infrastructure optimization while improving system performance.
- Coordinated cross-functional efforts involving 50+ stakeholders to achieve these outcomes.
- Leveraged deep expertise in distributed computing and Spark runtime internals to architect scalable solutions on the Databricks platform.
- Managed the professional development of a robust Cloud platform, leveraging Microsoft Azure architecture.
- Oversaw all Azure Cloud environments, ensuring efficient automation, monitoring metrics, CI/CD, and migration.
- Utilized cloud platform expertise and infrastructure as code principles to design and deploy highly performant end-to-end data architectures.
- Owned and maintained configuration and release management governance, ensuring project execution adhered to specifications.
- Collaborated with senior engineers to define effective release management processes, ensuring successful project deliveries.
- Demonstrated proficiency in CI/CD for production deployments, ensuring rapid and reliable software delivery.
- Established GitHub code repositories and automated CI/CD pipelines for all product lines.
- Applied Python and/or Scala scripting to automate deployment processes, enhancing software delivery pipeline efficiency.

EDUCATION

University of Agra (India) | Masters 2015-2017
University of Agra (India) | Bachelors 2011-2014

CERTIFICATIONS

Microsoft Certified Azure Solution Architect Expert (AZ-305)	Databricks Certified Data Engineer Associate
Microsoft Certified Azure Administrator Associate (AZ-104)	Databricks Lakehouse Fundamentals
Microsoft Certified Azure Fundamentals (AZ-900)	Databricks Certified Generative AI Fundamentals
Microsoft Certified Data Fundamentals (DP-900)	Microsoft Certified Dynamics 365 Fundamentals (CRM) (MB-910)
Microsoft Certified Security Compliance and Identify Fundamentals (SC-900)	