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Shyam Prasad Cloud Architect



Techno-functional Professional with expertise in independently leading projects by understanding the requirements; targeting assignments of Cloud Architecture within an organization of high repute
Location Preference: **Noida | Gurugram | Bengaluru | Pune | Mumbai | Hyderabad**



Career Timeline



<https://www.linkedin.com/in/shyam-prasad-4a167258/>



July 2014-Feb 2016



Since Feb'16



Key Impact Areas

Cloud Solutions Architecture

Cloud Infrastructure Technologies

AWS Identity and Access Management

Performance Tuning & Optimization

Design Patterns & Refactoring

Solution Design & Roll-out

DevOps Solution Delivery & Strategy

Continuous Integration & Release Engg.



Soft Skills



Executive Profile

- **Digital Solutions Architect** offering total experience of **nearly 6.5 years**; entailing nearly 4 years of experience in **design, analysis, development, testing, implementation and maintenance of AWS Cloud Services**
- **Certified AWS Solutions Architect**: Expertise in Digital Transformation, Consulting of Mobile & Cloud Application Development
- **Solution Architecture & Design**: Highly skilled in advising & delivering on cloud-enabled solutions, reference architectures, governance policies, security models and best practices for diverse functional areas
- Steered efforts in managing **cloud infrastructure requirements** for deploying products & services in cloud along with change management, risk management, resource/skills management POC
- **Project Coordination**: Planned and managed the time and availability of cross-functional teams and business users to ease manage and effectively deliver quality services to the customer
- Highly skilled in managing & executing software release builds and deployments in a cloud first approach into AWS; knowledge with best practices for **AWS architecture, such as AWS services used: EC2, VPC, ELB, ALB, Autoscaling, S3, Glacier, RDS, Aurora, CloudWatch, CloudFormation, CloudTrail, Lambda, IAM, SQS, SNS, Code Commit, Elastic container service, Elastic Kubernetes Service, Data pipeline, Redshift & DynamoDB**
- **Expertise in Python, Terraform**
- **Expertise in envisioning & architecting new innovative solutions** on/across cloud platforms and in migration of other private/public IaaS/PaaS instances
- Implemented DevOps methodology in infrastructure management team for Samsung Smart TV applications hosted **on AWS using DevOps tools – Git (Code Commit), CI/CD Pipeline using Jenkins and automation of cloud management process using Python**

Knowledge Purview

- AWS cloud platforms and deployment of Microservices in Spring Boot on ECS Clusters
- Command line experience with Linux including writing bash scripts
- Command line experience with windows including writing PowerShell scripts
- Using Version control tools like GitLab/GitHub
- Check-in and Merge process



Professional Experience

Lead Engineer

Samsung Research and Development, Noida

Growth Path:

Engineer : 2016-2020

Lead Engineer : 2020 - Till Date

Since April'20

Key Result Areas:

- Supervising the entire product lifecycle including feasibility through scoping, requirements definition through specification, design, development, quality assurance, integration and implementation
- Designing target platform architecture on Cloud AWS and defining roadmaps for Cloud Transformation/Migration
- Following architecture trends, industry standards, emerging technologies, products, and tools assisting in development

- Deploying, managing, and operating scalable, highly available, and fault tolerant systems on AWS
- Implementing DevOps methodology in infrastructure management team for Samsung Smart TV applications hosted on AWS using DevOps tools including Git (Code Commit), Jenkins and Automation of cloud management process using Python
- Automating of operational activities using Python SDK (Boto3) for AWS
- Resolving integration and interfacing issues between various applications or systems with focus on optimizing application performance and scalability
- Writing & reviewing documentation & technical requirements, including software designs, evaluation plans, technical manuals & formal recommendations/reports
- Writing infrastructure as code using CloudFormation & Terraform
- Played a key role in automating Most common tasks using Ansible
- Automating/Developing scripts using Python, PowerShell & Shell Script for infrastructure needs
- Delivering best practices and strategies regarding Infrastructure deployment and maintenance; migrating infrastructure with zero downtime to a highly available, scalable one
- Utilizing security best practices (e.g. using IAM Roles, KMS, etc.)
- Leading other department engineers in case of the service developed by the AWS infrastructure team

Highlights:

- Migrated on premises virtual machine to AWS cloud environment
- Selected the appropriate AWS service based on compute, data, or security requirements
- Successfully automated the migration activities using PowerShell, Shell Script, AWS-CLI
- Utilized AWS Services: EC2, VPC, ELB, ALB, Autoscaling, S3, Glacier, RDS, Aurora, CloudWatch, CloudFormation, CloudTrail, Lambda, IAM, SQS, SNS, Code Commit, Elastic Container Service, Elastic Kubernetes Service, Data pipeline, Redshift & DynamoDB

Previous Experience

Server Admin

IBIBO Group

July'14 – Feb'16

- Managing Network of Ibibo with around 1500+ Servers
- Ensure monitoring of remote Data Centre environments is maintained to a high-level physical security.
- Reboot & take consoles the servers through Dell DRAC, IBM RSA
- Ensuring continuous operation of all servers and services via Troubleshooting of all network and server related problems.

Technical Skills

Cloud Platforms: Amazon Web Services, Google Cloud Platform

AWS: Networking: VPC, Subnet, Nat Gateway, Cloudfront, Route53, Direct Connect, Transit Gateway

Containers: Elastic Container Service, Elastic Kubernetes Service, ECR

Compute: EC2, Lambda, Batch, ALB, ELB

Storage: S3, S3 Glacier, EFS, EBS

Database: Aurora MySQL/Postgres, DynamoDB,

Migration: Amazon Migration Hub

Developer tools: Code Commit, Code Build, Code deploy, Comedienne

Security: IAM, Cognito, KMS, Certificate Manager, Gaurd Duty, Secrets Manager, WAF

Management & Governance: CloudWatch, CloudTrail, AWS well architected tool, SNS

GCP: GKE, CloudSQL, Load Balancing, Cloud Spanner

Languages: Python,

Operating System: Red hat Linux/Ubuntu18.0/Amazon Linux, Windows Server 2018

Protocols: TCP/IP Socket Programming, UDP, SSL/TLS, HTTPS, REST APIs

Version Control: GIT,

Infrastructure-as-code: Cloudformation, Terraform, AWS Cloud Development Kit

DevOps Tools: Docker, Docker Swarm, Kubernetes, Jenkins, Nagios, Grafana

Bug Tracking Tools: Jira, Confluence, Slack

Software Development Life Cycle: Agile, Waterfall

Web Server: Apache, Nginx, Tomcat

Achievement

- 2017-SAMSUNG-Promoted- Associate engineer to Engineer
- 2018-SAMSUNG-Employe of the year award
- 2019- SAMSUNG-Project of the Year Award
- 2020- SAMSUNG-Promoted-Engineer to Lead Engineer

Academic Details

- B.Tech. (information and technology) from Guru Gobind Singh Indraprastha university, New Delhi in 2014-75.4%
- CBSE Board- RPVV link Road Karol Bagh (Xiith) 2010-80.2%
- CBSE Board- RPVV link Road Karol Bagh (Xth) 2008-84.6%

Certification

- **AWS Certified Solutions Architect – Professional – Credential ID- MS99HQ811FEQQTG6**
- **AWS Certified Solutions Architect - Associate – Credential ID- ZNQN7KB11211QZK**
- **AWS Certified Devops - Associate – Credential ID -3DEMSLR2B1F41E5Y**

Annexure (Projects Undertaken)

Project:	Samsung R&D Delhi - Server Development Group – Samsung Apps/Store Service
Client:	Samsung Electronics - South Korea
Period:	Since Feb'16
Description:	Provisioning and managing cloud infrastructure for Samsung Smart TV applications and also implementation of DevOps methodology for cloud infrastructure management. Samsung Apps/Store Service is used for downloading of apps like Amazon Prime, Netflix, Disney Hotstar on Samsung Smart TVs all over the world. It handles 2 billion of requests per day.
Technologies:	AWS and Microservices in Spring Boot on ECS Clusters
Responsibilities:	<ul style="list-style-type: none">· Provisioning cloud infrastructure for Smart TV applications· Managing Batch jobs in python to populate data into db· Implementing versioning in infrastructure management process using Git and CI/CD using Jenkins pipeline in Groovy· Adaptation of Fargate Serverless (Better infra provision)· Engaged in service infra automation with CDK, Region Expansion (Virginia, Tokyo and Frankfurt), Complete DevOps adaptation- e-CODE, CI/CD and Strict Code coverage > 85%· Mix of Fargate and Fargate Spot as Capacity Provider· X-Ray sampling rate reduced· Migration of DNS eg Hosted Zone· Complete infra Management. Cost saving, Security of Complete Samsung Infra

