Sivaramakrishna Sanika

AWS Cloud Python Engineer

📱 +91 9704485090   ✉ sivaram2000sanika@gmail.com   in sivaramakrishna-sanika-948443200/

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Skilled AWS Python Developer with 4 years of experience in designing, developing, and deploying scalable applications on AWS. Proficient in Python programming and AWS services including Lambda, Step function, EC2, S3, CloudWatch, DynamoDB, SNS, ECS and SQS. Expertise in creating serverless applications, automating cloud infrastructure with AWS CloudFormation. Strong problem-solving skills and a track record of optimizing performance and ensuring high availability. Passionate about leveraging cloud technologies to drive innovation and deliver robust, efficient solutions.

Brief Overview:

- ➢ Currently working with DXC as Professional 1 with an overall 4 years of experience I.T. industry.
- ➢ Strong understanding of the fundamentals of Cloud (AWS), Platform Engineering, automation and scripting and Data Validation.
- ➢ Experience in Client facing and leading the team.
- ➢ Hands on experience in AWS EC2, S3, SNS, SQS VPC, Lambda, Step Function, DynamoDB and other AWS services and technologies.
- ➢ Hands on experience in cloud formation template to deploy AWS components.
- ➢ Hands on experience in SQL.
- ➢ Good communication and presentation skills.
- ➢ Ability to identify and resolve problems both independently and quickly.
- ➢ Proficiency at grasping new technical concepts quickly & utilizing it in a productive manner.
- ➢ An effective team lead with exceptional planning and execution skills coupled with a systematic approach and quick adaptability.
- ➢ Have working experience in both Agile and Waterfall Model SDLCs.

IT Skill Set:

Cloud Technologies	AWS
Primary Skills	AWS Services: Lambda, Step Function, CFT, System Manager, EC2, VPC, S3, SNS, IAM, CloudWatch, CloudTrail, Cost Explorer, SQS, SES, Secret Manager, Amazon Event Bridge etc
Secondary Skills	DevOps Tools: Docker, GitHub, and Jenkins. . Other Tools: ServiceNow and PoweBI.
Databases	DynamoDB
Operating Systems	Windows, Linux
Languages	Python, Shell Script, JSON, YAML
Infrastructure as code	CFT
Version Control System	Git, GitHub and Bitbucket

Certification:

- AWS Certified Solutions Architect - Associate – Amazon(636436Z1VE41123Y)
- AWS Certified Cloud Practitioner – Amazon(6F3K9SELFN41QG5G)
- Microsoft Azure - AZ-900 Microsoft Azure Fundamentals – Microsoft (I589-4199)
- Lean Six Sigma - Green Belt Certificate
- Lean Six Sigma – Yellow Belt Certificate

Highlights:

- Leading and guiding all Internal Automation tasks as Cloud Ops Automation developer.
- Provided various automation solutions for generating Inventory reports of all supportedaccounts.
- Created various CloudFormation templates for deployment of AWS resources.
- Published many success stories for completed projects.

Work Rewards/Recognition:

2 Champ Awards - DXC

- Resolution Life Project delivery and leading the team to deliver the services with cost optimization.
- Developed Automation solutions in AURA Project.

4 Emerald Award – DXC

- Developed and successfully enabled the AWS Managed services in customer environment.

Townhall Recognition – DXC

- Resolution Life Project

Ruby Award – DXC

- Aura Automation

Professional Achievements:

- Got **2 Champ Awards** in DXC for Developing an automated solution in AURA project & Resolution Life Project.
- Completed the **AWS Certified Solutions Architect – Associate**.
- Got the appreciation emails from client directly for the delivery and even got recognized in Town Hall meetings.
- Published a blog in AWS which got approved by DXC marketing team and AWS.
  - https://aws.amazon.com/blogs/apn/simplify-workload-monitoring-using-amazon-cloudwatch-anomaly-detection/
- Have been appreciated by Global Delivery Lead for my work in Automation Project.
- My team was awarded "**Team of the Quarter**" award in COE.
- Have been appreciated by client for my extraordinary work in the Resolution Lift Project.
- Have got multiple appreciation and recognition from the client.

- Got the **Green belt certification** for one of the projects from Lean Six Sigma.

Project Experience Profile:

Company	Role	Start Date	End Date
DXC	Associate Software Engineer	June 2021	June 2023
DXC	Analyst I Software Engineer	June 2023	Currently

Project: Track Changes to Financially Relevant Production Systems	**Company:** DXC
Role: Developer	**Client:** Resolution Life
Team Size: 5	

Project Description: The solution proposed monitors and tracks changes made to financially relevant systems in AWS Production environment. It leverages AWS Config and AWS CloudTrail to identify what changed, who made the change and when was that change made. This information is persisted in AWS S3, and a consolidated report (CSV) is created weekly and sent out to required recipients.

Responsibilities /Contributions:
- Responsible for delivering all the AWS services with the required AWS configurations.
- Responsible for creation and configuration of resources in customer environment from end to end with all the VPC and network components.
- Responsible for monitoring daily and monthly loads and defect fixing.
- Responsible for fixing the issues during the development and deployment.
- Responsible for enabling the solution in new AWS service account.
- Responsible for creating and maintaining design diagrams and architectural documents.

Tool: Python**,** Lambda, Event Rule, SG, Config, SQS, SNS, SES, S3, Cloud Trail, IAM, Cloud formation

Solution Environment: AWS, DevOps

Project: AWS Zero Touch Patching Automation	**Company:** DXC
Role: Senior Developer	**Client:** AURA
Team Size:10	

Project Description:

AWS Patching will be automatically scheduled for every month based on the maintenance tags present on the ec2-instances using AWS Services. The patching activity will be carried out using the lambda functions flow orchestrated via AWS Step Function. These lambda functions will perform the patching activity on the instances with the help of AWS System Manager (AWS-Run-Patch Baseline, AWS-RunPowerShellScript & AWS-RunShellScript). It has ServiceNow integration to generate the Change Request for changes.

Responsibilities /Contributions:
- Responsible for AWS EC2, S3, Lambda, SNS and other services.
- Responsible for developing a job in AWS lambda to do some automations.
- Responsible for enabling any new AWS service into the project.
- Part of platform architecture team.
- Responsible for writing cloud formation template to deploy AWS components.

Tool: Python, AWS Step Function, S3, EC2, System Manager, Dynamo DB, SNS, SES, Event Bridge Rule, Lambda, Cloud Formation, PowerBI.

Solution Environment: AWS

Project: Scan S3 using Clam AV	**Company:** DXC
Role: Team Lead	**Client:** Resolution Life

Team Size: 5

Project Description:

The proposed solution scans objects in the S3 buckets using Clam AV antivirus when they are uploaded to the bucket. The S3 buckets have been tagged for scanning. It leverages **AWS Lambda container** with EFS, to implement the scanning, marks the objects as CLEAN or INFECTED, quarantines infected objects, and sends a notification of infected objects.

Responsibilities /Contributions:
- Have been involved in gathering Client's requirements and designing the model to build a solution.
- Design and development of Solution with the team in the client environment.
- Involved in Developing, testing and Deployment.
- Developing Lambda function for scanning the objects in the Clam AV.
- Responsible for coding semantic views which involves all KPI logic which in turn will be used in Tableau for reporting.
- Responsible for monitoring daily and monthly loads and defect fixing.

Tool: Python, AWS ECR, Lambda, Containers, Docker Image, EFS, SQS, S3, SES, Event Bridge Rule.

Solution Environment: AWS, DevOps

Responsibilities for DXC Internal Projects:

- Developed the automated solution as per client's requirement.
    - Developed the **AWS Selfheal Solution** for several use cases like:
        - ✓ CloudWatch Agent Failure
        - ✓ CrowdStrike (Falcon Agent Failure), etc.
    - Successfully tested and integrated the **AWS Selfheal** with **AWS Offering**
    - Recently Developed the **AWS Anomaly Detection** solution for EC2, Lambda and Cost Anomaly Service
    - Developed the **WAR Report PowerBI Dashboard** for Well Architect Framework
    - Successfully Integrated the **AWS Anomaly Detection Automation** solution with AWS Offering.
- Creation of Automation Documents (SSM Run Command Document).
- Integration of Step Function with other AWS Services & orchestration of lambda functions using step function.

- Creation of Lambda Function scripts using Python
- Working for AWS Cloud Ops team to fulfill automation requirements.
- Working with AWS Engineering Team to integrate the solutions to AWS Offering.
- Development & deployment of Infrastructure using the CloudFormation Templates.
- Involving in the AWS Automation development which includes Lambda, System Manager, SNS, SES, S3, CloudWatch, Amazon Event Bridge, DynamoDB, EC2, IAM, Secret Manager, etc.

Education Summary:

Degree	Passed Year	Specialization	Institute/University	Aggregate %
Bachelor Of Technology	June 2021	Electronics and Communication Engineering.	Malla Reddy College of Engineering and Technology	91
Polytechnic	June 2018	Electronics and Communication Engineering.	Sai Spurthi Institute of Technology	85
SSC	May 2015	Mathematics and Science	Zilla Parishad Secondary High School	80

Personal Details:

DOB: 23-Feb-2000	**Age:** 24Years	**Marital Status:** Single	**Nationality:** Indian

Languages:

English – Proficient

Telugu – Proficient

Hindi – Beginner

Declaration:

I hereby declare that the information furnished above is complete and true to the best of my knowledge.

Place: Hyderabad,

Sivaramakrishna Sanika