image2.jpg**Sri Snigdha Kotharu**

image4.jpg[srisnigdha06@gmail.com](mailto:srisnigdha06@gmail.com)

Phone : (972) 626 2586

**SUMMARY**

* Over 5 years of experience in designing, developing, deploying, and supporting Serverless Applications using AWS, python, JavaScript.
* Developed and maintained serverless RESTful APIs using AWS Lambda and API Gateway, integrating Python scripts with Boto3 for secure and efficient database interactions in DynamoDB.
* Automated AWS infrastructure management tasks by creating Python scripts with Boto3, enabling efficient creation and monitoring of S3 buckets, Lambda functions, and CloudWatch alarms.
* Built and deployed serverless microservices using AWS Lambda and Step Functions, utilizing Python and Boto3 to automate AWS resource provisioning and data flow between services.
* Designed and Developed Solutions supporting business objectives, like building and deploying serverless applications extensively in Python.
* Experience building secure, available and fault tolerant RESTful APIs on cloud platforms.
* Experience in Building CICD pipeline using Jenkins, SonarQube, GitHub.
* Strong experience in AWS Cloud Formation, CLI, Lambda, ECS, S3, SNS and SQS.
* Experience on Cloud Watch, Route53, ELB and DynamoDB.
* Experience in building and deploying systems using Serverless Framework and CLI tools.
* Experience working on several Docker components like Docker Engine, Hub, Machine, creating Docker images, Compose, Docker Registry and handling multiple images primarily for installations and domain configurations.
* Experience in Web development using HTML, CSS, XML, TypeScript and JavaScript.
* Experience working with SQL databases like RDS and NoSQL databases like DynamoDB.
* Experience with different AWS services like S3, RDS, lambda, SQS, CloudFront, SNS, Cloud Watch, Cloud Formation templates and Route 53.
* Experience in working with python libraries like Pandas, NumPy, Matplotlib, Logging, OS, Boto3, Seaborn.
* Experience on AWS Cloud Services like ECS, ELB, EC2, VPC, Route53 and DynamoDB and continuous Integration and Continuous Deployment with AWS Code Pipeline.
* Have good knowledge and working experience with Amazon API Gateway and providing clients with consistent and scalable programming interfaces.
* Experience in creating and maintaining Auto scaling groups, AWS Networking, IAM user roles, policies, EC2 and Load Balancers.
* Experience in GIT and SVN for code management, branch creation, repositories management versioning and integrated with Jenkins for CI/CD pipeline, code quality.
* Strong knowledge in unit testing using Jest and Mocha for unit testing.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| DevOps Engineering | AWS CFT, Terraform, Serverless Framework, Jenkins, GIT. |
| Cloud Services | AWS Lambda, API Gateway, Cognito, Step Functions, RDS, CloudFront, SNS, SQS, Systems Manager, EC2, VPC, KMS, ELB, Route 53, Certificate Manager, |
| Programming/Scripting | Python, Java |
| Databases/Storage | MySQL, PostgreSQL, DynamoDB, S3, Amazon RDS |

**EDUCATION**

* **M**aster of Science, Computer Science, University of North Texas (Aug 2021 – May 2023)
* Bachelor’s in computer science and engineering, Sri Gayathri Vidhya Parishad College of Engineering (May 2015- June 2019)

**PROFESSIONAL EXPERIENCE:**

**Virufy** (Remote)

Mar 2024 – Present

**Software Engineer - Cloud**

**Responsibilities:**

* Experience in building Serverless Web Application using Python, AWS Lambda, Serverless Framework, SNS, DynamoDB, Amazon ECS, ECR.
* Designed and deployed serverless applications using AWS Lambda, API Gateway, and DynamoDB to automate data processing workflows, leveraging Python scripts and Boto3 libraries for seamless integration with AWS services.
* Implemented scalable, event-driven architectures by writing Python-based Lambda functions utilizing Boto3 to interact with AWS S3, SNS, and SQS for real-time data handling and notification management.
* Developed Rest APIs using Python and deployed them on API Gateway, Step Functions using serverless framework.
* Developed and Implemented Software Release Management strategies for various applications according to the Agile process.
* Used GitHub for source code version control and integrated with Jenkins for CI/CD pipeline, Sonar for code quality tracking and Jira integrated with Bitbucket.
* Used Jenkins for Continuous Integration and deployment into AWS Lambda & ECS and for maintaining the infrastructure using AWS Cloud Formation.
* As a team worked on Building serverless applications using AWS, Launching ECS Clusters and configuring proper Services & Task Definitions, RDS, S3, IAM, Route53, VPC, Code Deploy, creating security groups, auto-scaling, load balancers (ELBs) in the defined Virtual Private Cloud connection.
* Used Route 53 for DNS Network Failover and Latency Based Routing to the applications with weighted routed policies.
* Automated IAM user and role creation using Python scripts with Boto3, ensuring secure access control and monitoring through custom CloudWatch rules and alerts.
* Optimized cost and performance by creating Python-based automation scripts with Boto3 to manage EC2 instances and RDS snapshots as part of scheduled serverless solutions.
* Integrated third-party provider’s APIs to support the applications core functionality.
* Configured IAM roles, users and security groups for the applications in a secure way for connecting to the internet and the on prem setup.
* Implemented AWS Cloud Formation templates using YAML to create Aurora, ECS, Log Groups, CloudWatch Events, Dashboards, Scaling Policies, Lambda Functions, Route 53, CloudFront Distribution, S3, custom resources to ensure successful deployment of web applications.
* Developed unit tests using Jest.

**Environment**: Amazon Web Services, Bitbucket, Jira, JWT, Cognito, Sonar, Jenkins, ECS (Docker), Angular, Python, Java/J2EE, Linux, Jest.

**C-HIT** (Columbia, MD)

Aug 2023 – Mar 2024

**Software Developer**

**Responsibilities:**

* Developed Lambda functions using Python, deployed them as REST APIs on API Gateway and configured

Kinesis Streams as triggers for asynchronous event-based compute.

* Development of backend micro services using serverless technology to support the internal mortgage portal.
* Responsible for developing CloudFormation/Terraform templates for infrastructure management and to ensure successful deployment of applications.
* Developed and Implemented Software Release Management strategies for various applications according to the Agile process.
* Developed AWS Lambda functions in Python, utilizing Boto3 to trigger and execute automated tasks such as database updates, SNS notifications, and SQS queue management.
* Designed serverless data processing pipelines with AWS Step Functions and Python-based Lambda functions, leveraging Boto3 for seamless orchestration and resource management.
* Created Docker images using a Docker file. Worked on Docker container snapshots, removing images and managing docker volumes and experienced with Docker container service.
* Containerized services in Docker in Amazon environment and Installed and Configured the Nexus repository manager for sharing the artifacts.
* Enhanced cost-efficiency by automating resource scaling and scheduling using Python and Boto3 within AWS CloudFormation templates for serverless applications.

**Environment**: Amazon Web Services, Python, Bitbucket, Jira, Sonar, Jenkins, ECS (Docker), Linux, Jest.

**Atos India Global IT solutions** (Chennai, India)

Jun 2019 – Aug 2021

**Systems Engineer-1**

**Responsibilities:**

* Developed Code, design, test, implement, debug, and validate applications; document design decisions and develop modular software components in Java; monitor system performance metrics and identify potential risks/issues.
* Experienced in Monitoring tools like Nextgen, Grafana, Paladin, EDPP, Nagios. Network monitoring tool Spectrum. Using Service Now and SDM as ticketing tool.
* Implemented continuous integration and delivery (CI/CD) by aligning development efforts with the Agile framework, ensuring timely and high-quality releases.
* Managed Maximo 7.x system administration tasks, including user access control, data integrity checks, and regular system updates to ensure optimal performance.
* Worked on implementation of Jenkins pipelines to run daily unit and integration tests.
* Developed effective sales cadences in Outreach, incorporating multiple touchpoints via emails, calls, and social media interactions.
* Analyzed existing maintenance processes and implemented best practices within Maximo to reduce downtime and improve asset lifecycle management.
* Monitored infrastructure of all the application servers like ServiceNow in the Production environment as an l2/l3 production support and to alert the appropriate OS support teams and application teams when any metric thresholds are crossed (Disk usage, RAM consumption, Uptime, etc.).
* Led the continuous operation and support of critical IT systems in a 24x7x365 environment, ensuring high availability and minimal downtime during weekends and holidays.
* Led as in critical incident response efforts, coordinating cross-functional teams to restore services within 2 hours and minimizing downtime as a l3 production support engineer.
* Implemented Level1/Level2 troubleshooting for MSSQL and Oracle Databases, MS Windows, Linux/Unix, Network devices.

**Environment**: Java, IBM Maximo, Service Now, SDM, Nextgen, Grafana, Paladin, EDPP, Nagios, JavaScript, JDBC, Eclipse, GitHub

**Single source Infotech** (Hyderabad, India)

May 2018 – Apr 2019

**Software Developer Intern**

**Responsibilities:**

* Developed python automation using REST API for the mail processing based on content.
* Worked on creating automated PPT generation Using PPTX library which generates a detailed presentation to the User about the sales with statistics.
* Implementation of highly responsive and interactive UIs using ReactJS, enhancing user experience by leveraging deep knowledge of DOM and Virtual DOM operations.
* Deployed AWS Lambda code using Amazon s3 buckets. Created Lambda deployment functions and configured it to receive events from s3 buckets.
* Worked on data cleaning and ensured data quality, consistency, integrity using Pandas.

**Environment**: Python, Pandas, Amazon Web Services, React JS, GitHub, Jira, Python Libraries