Mamatha B S

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Aspiring Cloud Engineer passionate about building secure, scalable cloud-native solutions using AWS & DevOps tools.

PROFESSIONAL EXPERIENCE

APPONIX ACADEMY   **Bengaluru, Karnataka**
Cloud Computing and DevOps tools Trainee   **Feb, 2025 – May, 2025**

- Designed and deployed AWS infrastructure using **EC2, S3, IAM, CloudFormation**, and **Auto Scaling**, enabling high availability and scalability for test workloads.
- Automated project deployment pipelines with **Jenkins**, integrating **Git**, **Maven**, and **EC2**, reducing manual build efforts by 60%.
- Configured and monitored logs via **CloudTrail** and **CloudWatch**, improving debugging efficiency and ensuring system audit compliance.
- Implemented **S3 Versioning** and **Cross-Region Replication (CRR)** to enhance data durability and disaster recovery strategy.
- Created and managed VPC with **custom subnets, internet gateways, and route tables**, enabling secure and isolated cloud networking.
- Managed user permissions and policies with **IAM roles and groups**, improving security and least privilege access.
- Configured **SNS and SQS** to decouple services and enable asynchronous communication between distributed components.
- Built serverless workflows using **Lambda functions** integrated with **API Gateway**, reducing cost and increasing execution efficiency.
- Performed backups and volume snapshots using **EBS**, supporting data recovery and storage optimization strategies.

TERAGON
Data Science and python Programming and Analytical Tool   **Oct, 2023 - Nov, 2024**

- Developed Python scripts for data preprocessing and visualization, enabling accurate pattern detection and data insights across structured datasets.
- Designed and deployed interactive dashboards in **Tableau**, supporting real-time business decision-making through data-driven storytelling.

EDUCATION

Government Engineering college Mosalehosahalli (GECM), Hassan   **2021-2025**
*Bachelor of Engineering, Electronics and Communication – **9 CGPA**,*

Shree Siddaganga PU College for Women's, Tumkur   **2019-2021**
CBSE - 87

TECHNICAL SKILLS

- **Linux**

Booting process, IP configuration, Virtualization, File system Hierarchy (FSH), File Permission, Hard link and soft link, SSH, Cronjob, Ana cronjob, SCP, Pipes and Filter, achieves,

- **Cloud Computing (AWS)**

EC2, S3 (Versioning, Cross-Region Replication), EBS, VPC, IAM, Lambda, CloudFormation, CloudTrail, CloudWatch, Auto Scaling, Load Balancer, Route 53, SQS, SNS, DynamoDB

- **DevOps Tools:**

Git, GitHub, Jenkins, Docker, Kubernetes, Ansible, Prometheus and Grafana

- **Programming Language**

 Python

PROJECTS

Shell script that lists AWS resources:

- Developed a shell script to automate the discovery and listing of AWS resources (S3 buckets, EC2 instances, Lambda functions, and IAM users) across the account.
- Integrated AWS CLI commands within the script to fetch real-time metadata such as instance details, public/private IPs, security groups, S3 bucket names, IAM user details, and Lambda configurations.
- Implemented structured JSON parsing and formatted output for clear reporting of resource usage.

Musical Instrument Classification Based on Sounds – Python, MFCC, VGG 16

- Extracted audio features from sound signals using MFCC, Chroma, and Spectral Contrast.
- Trained classification models (SVM, Random Forest, KNN) to detect and identify musical instruments with high accuracy.

Blood group Detection Using LED - Embedded Systems, Optical Sensors, Circuit Design

- Designed a low-cost system to detect blood groups using LED light and photodiode-based sensing.
- Built hardware circuit to analyses agglutination patterns and identify blood types in real-time.

ADDITIONAL INFORMATION

- **Competitions:** State level volleyball player
- **Certifications:** Cloud computing and DevOps tools completion
- **Languages:** English (Professional), Kannada (Native)
- **Interests:** Reading **50+** books, writing poem, Cricket, Volleyball, Fitness.
- **AIDSO Organization:** to build good society, to save public education, to solve the problem related to the student