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**](https://www.commvault.com/) **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**](https://www.heynox.com/)

**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.

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| **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**  *CBSE - 87* | **2019-2021** |

## 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](https://learn.microsoft.com/en-us/users/chandansgowda-1685/credentials/8e8c80657ae41810?ref=https%3A%2F%2Fwww.linkedin.com%2F)
* **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