

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

Cloud Computing and DevOps tools Trainee

Bengaluru, Karnataka

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.

TECHNICAL SKILLS

- **Linux**

Bootstrapping 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

Ultimate Jenkins CI/CD Pipeline – Jenkins, Maven, SonarQube, Docker, Helm, Argo CD, Kubernetes

- Automated the entire build, test, and deployment workflow for a Java Spring Boot application, **reducing manual deployment time by 90%** and improving release reliability by **95%**.
- Integrated **Maven** for build automation and **SonarQube** for static code analysis, ensuring **80% improvement in code quality compliance**.
- Containerized the application with **Docker**, pushed images to **DockerHub**, and enabled GitOps-based deployments using **Helm** and **Argo CD**, resulting in **70% faster rollouts** and seamless scalability.
- Configured automated reporting and Slack/Email notifications, increasing team visibility and response time by **85%**.

Shell Script to List AWS Resources – AWS CLI, Bash

- Automated AWS resource listing, cutting manual work 80%, boosting accuracy 90%
- Integrated AWS CLI metadata parsing and formatted outputs, increasing reporting clarity and **efficiency by 75%**.

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

- Extracted audio features from sound signals using MFCC, Chroma, and Spectral Contrast.
- 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.

EDUCATION

Government Engineering College, Mosalehosahalli, Hassan	2021-2025
<i>Bachelor of Engineering, Electronics and Communication – 9 CGPA</i>	
Sri Siddaganga Pu College	2019-2021
<i>CBSE - PCMB - 87%</i>	

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