DIPESH MANDAL

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Proficient in Aws Cloud Services, DevOps, Coding, Scripting, Troubleshooting, Automation, and Support.

SKILLS

• Languages:

C++, Python, Bash Shell Scripting

• AWS Cloud Services:

EC2, S3, IAM, Lambda, VPC, CloudFront, API Gateway, ELB, EBS, Athena, Glue, Kinesis, Cloudwatch

• Database:

PostgreSQL, DynamoDB, RDS

• DevOps Tools:

Docker, Terraform, Ansible, YAML, Kubernetes, Git & GitHub, ECS

• Operating System:

Linux, Window RHEL, UBUNTU, CENTOS

• Soft Skills:

Communication, Teamwork, Leadership

EDUCATION

B.Tech in Computer Science

Rajdhani Engineering College, Jaipur Expected Graduation: 2025 CGPA - 7.89

Diploma in Computer Science

Shekhawati Group of Institutions, Sikar **Sep 2018 - Sep 2021**

CERTIFICATION

CGPA - 7.45

Aws Cloud Practitioner
(Udemy) || Certificate
Aws Solution Architect Associate
(Udemy) || Certificate

COURSEWORK

Data Structure & Algorithms ||
Operating System ||
Object Oriented Programming
language ||
Computer Network ||
Machine Learning.

PROJECT

1. Responsive Serverless Web Application Deployment Using Aws Lambda, API Gateway, DynamoDB, CloudFront, and S3 || Link

- Serverless Architecture: Built a serverless web app with AWS Lambda, API Gateway, and DynamoDB for scalable, maintenance-free student data management.
- Global Performance: Leveraged S3 and CloudFront for fast, low-latency content delivery worldwide.
- Cost-Effective & Secure: Reduced costs with AWS's pay-as-you-go model, ensuring security with IAM roles and encrypted DynamoDB storage.

2. Design and Manage infrastructure with Terraform while automating deployment workflows using GitHub Actions. || Link

- Automated Infrastructure Provisioning: Streamlined AWS resource setup (VPC, EC2, SG, ALB) with Terraform for consistent and repeatable deployments.
- **High Availability and Load Balancing:** Deployed EC2 instances across availability zones with ALB for fault tolerance and high availability.
- **CI/CD Integration:** Used GitHub Actions to automate infrastructure updates and version control, ensuring seamless deployments.

3. End-to-End Real-Time Data Streaming Pipeline with Kinesis, AWS Glue, S3, and Athena

- Data Ingestion: Used Amazon Kinesis to stream live data for immediate processing.
- ETL and Storage: Applied AWS Glue for ETL and stored processed data in Amazon S3.
- Data Cataloging: Automated cataloging with AWS Glue Crawler for easy data access.
- Querying: Leveraged Amazon Athena for fast, serverless querying of data in S3.

4. Serverless Email Marketing Application Using AWS Lambda, IAM, S3, SES, and EventBridge | Link

- Automated Email Campaigns: Use AWS Lambda to process contact lists and templates from S3 for personalized email campaigns.
- **High-Volume Delivery:** Amazon SES ensures reliable and scalable sending of large volumes of emails.
- Scheduled Emails: EventBridge automates email scheduling for timely, event-driven delivery.
- Secure and Scalable: IAM policies and serverless architecture provide security, scalability, and cost-efficiency.

WORK EXPERIENCE

Phoenix Advanced Software Pvt. Ltd, Jaipur — Process Associate Sep 2021 - May 2023

- Automated server setup and software updates on **Ubuntu** and **CentOS** using **Ansible**, reducing manual configuration by 90%.
- Developed **Ansible playbooks** for deployment, configuration, and security patching, improving system reliability and cutting setup time by 30%.
- Streamlined administrative tasks with automation, reducing errors and boosting operational efficiency.