

MUNAWAR AHMED KHAN

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OBJECTIVE

IT professional skilled in cloud computing enthusiast with hands-on experience, with strong knowledge of AWS services, including EC2, S3, RDS, VPC, CloudWatch, Elastic Beanstalk, and Lambda. Skilled in building CI/CD pipelines and using DevOps tools such as Git, Maven, Jenkins, Docker, and Ansible. Seeking a role to make a strong impact in cloud and DevOps.

EDUCATION

Deccan College Of Engineering & Technology 2024

Bachelor Of Engineering (BE-IT) – 7.22 CGPA

EXPERIENCE

Full Stack Academy

Cloud Computing Intern

July 2024 – Present

- Utilized **Linux (Ubuntu)** operating systems, focusing on **Bash scripting** to automate processes, enhance system performance, and streamline operations.
- Worked extensively with **AWS services**, including **EC2** for scalable compute capacity, **S3** for secure object storage, **VPC** for network isolation, and **Elastic Load Balancer (ELB)** for distributing incoming application traffic.
- Implemented **Auto Scaling** strategies to dynamically adjust resource availability based on demand, ensuring optimal application performance and cost efficiency.
- Deployed applications using **Elastic Beanstalk**, simplifying the process of managing the underlying infrastructure while maintaining application performance.
- Contributed to CI/CD pipeline development, preparing for **automated deployments** and cloud-native integration workflows.
- Conducted a **Cost Optimization Project** focused on analyzing AWS resource usage, identifying cost-saving opportunities, and implementing best practices for efficient resource management.

SKILLS:

AWS:

EC2, S3, IAM, Lambda, VPC, Cloud watch, SNS, RDS, Elastic Beanstalk, Route 53.

AWS CI/CD Services:

CodeBuild, CodeDeploy, CodePipeline.

Version Control:

Git

SCRIPTING:

Bash Script

DEVELOPMENT:

HTML, CSS

PROGRAMMING LANGUAGES:

Java, Python, C++

OS:

Linux, Windows

PROJECTS

CI/CD Pipeline on AWS

- Designed and implemented a **CI/CD pipeline** using **AWS CodePipeline** and **CodeBuild** to automate the build and deployment process for web applications.
- Utilized **AWS Elastic Beanstalk** for easy deployment and environment management, ensuring seamless updates and scaling.
- Integrated **Bitbucket** for version control, enabling automated builds triggered by code commits and pull requests.
- Focused on automation and continuous integration, ensuring efficient deployment workflows and minimal manual intervention.

Highly Available Web Application on AWS

- Designed a scalable web application architecture on AWS using **VPC** for network isolation and multiple **Availability Zones** for high availability.
- Deployed **LAMP servers** on **EC2 instances**, utilizing an **Application Load Balancer (ALB)** to evenly distribute traffic for improved performance.
- Utilized **Route 53** for DNS management and implemented secure data storage with **RDS (MySQL)** in private subnets, ensuring reliability and fault tolerance.
- Focused on delivering a robust, flexible, and scalable architecture for enhanced performance and disaster recovery.

Auto Turn On/Off EC2 Instances Project

- Designed a serverless solution using **AWS Lambda** and **Amazon EventBridge** to automate the turning on and off of EC2 instances based on specified schedules, optimizing resource usage and reducing costs.
- Implemented Python scripts utilizing the **Boto3** library to interact with AWS services, ensuring efficient management of EC2 instances.
- Enhanced operational efficiency by automating routine tasks, contributing to a more cost-effective cloud infrastructure management strategy.

Blockchain E-Voting Done Right Privacy and Transparency with Public Blockchain

- Aims to revolutionize the electoral process by leveraging Blockchain technology. By utilizing a public Blockchain, we ensure unparalleled transparency and integrity in the voting process while safeguarding voter privacy.
- Developed the backend using Python and Django for efficient data handling and smooth blockchain integration, and created a secure, user-friendly & Frontend with HTML, CSS, and JavaScript for voters.
- Ensured voter privacy by encrypting and storing each vote anonymously on the blockchain while leveraging blockchain transparency for real-time vote verification, enhancing trust and confidence in the electoral process.