MAHESHBABU PENNA
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Career Objective

To achieve high career growth through continuous learning, keep myself dynamic, hardworking, and competitive with the changing scenario of the world, and contribute to the growth of an organization using my knowledge.

Academic Profile

S.No	Name of Course	Institution	Board/University	Year of Pass	Percentage/ CGPA
1	B.Tech (ECE)	Vignan's Institute of Information Technology	JNTU-GV Affiliated	2023	8.31
2	Intermediate	Rajadhani Junior College	State Board of Intermediate Ed.	2019	9.63
3	SSC	Subhodaya High School	State Board of Secondary Ed.	2017	9.2

Technical Skills

- **Cloud Technologies**: AWS

- **Container Technologies**: Docker, Kubernetes, EKS

- **Scripting**: Python

- **Version Control System**: Git, GitHub

- **Operating Systems**: Linux, Windows

- **Infrastructure as Code**: Terraform

- **CI/CD**: Jenkins

Projects

Project 1: RDS-backed E-commerce Web Application Architecture

- **Key Tools**: Amazon RDS (MySQL), EC2, VPC, ELB, ASG

- **Responsibilities**:

  - Designed and deployed a highly scalable three-tier architecture using AWS services for an e-commerce platform.

  - Utilized Amazon EC2 for the application layer, deploying the application within an Auto Scaling Group (ASG) to ensure high availability.

  - Integrated an Elastic Load Balancer (ELB) to distribute incoming traffic evenly across multiple EC2 instances, providing fault tolerance.

  - Configured an Amazon RDS MySQL database to handle user data, ensuring optimal performance and security through VPC-based network isolation.

  - Implemented security groups and IAM roles for secure access control.

  - Managed and optimized the architecture to handle high-traffic periods while maintaining cost-efficiency through proper resource management.

- **Outcome**: Delivered a reliable and secure architecture that effectively handled dynamic traffic loads with seamless scaling and database isolation, ensuring a smooth user experience.

Project 2: Kubernetes End-to-End Deployment on EKS

- **Key Tools**: Kubernetes, EKS, Docker, EC2, Kubectl, Eksctl, AWS CLI

- **Responsibilities**:

  - Deployed a 2048 gaming application on Amazon EKS, utilizing Kubernetes for orchestration and management.

  - Containerized the application using Docker and implemented Kubernetes manifests for creating Pods, Services, and Deployments to ensure high availability.

  - Configured Horizontal Pod Autoscaling (HPA) based on resource utilization to handle fluctuating workloads efficiently.

  - Managed external access through Kubernetes LoadBalancer services and configured Ingress for handling HTTP traffic.

  - Set up monitoring and logging through CloudWatch to track application health and performance.

  - Implemented Kubernetes best practices for security and optimized resource utilization.

- **Outcome**: Successfully deployed a highly available and scalable gaming application, demonstrating expertise in cloud-native technologies, Kubernetes orchestration, and AWS integration.

Certifications & Accomplishments

- **AWS Certified Solutions Architect – Associate**

  - **Validation Number**: FM9VT8YC7EVEQZ56
  - **Validate At**: https://aws.amazon.com/verification
- **CCNA Online Certification (CISCO)**

Hobbies

- Swimming
- Playing Cricket
- Reading Epics
- Listening to Music

Personality Traits

- Sincere and hardworking
- Ability to work efficiently under time constraints
- Adaptable to new and challenging environments
- Enthusiastic and a good team player

Personal Details

- **Father's Name**: Penna Malyadri
- **Mother's Name**: Penna Koteswari
- **Date of Birth**: 6th December 2001
- **Gender**: Male
- **Nationality**: Indian
- **Languages Known**: English, Telugu, Hindi
- **Contact Address**: 3-3, K. Agraharm, Ponnaluru (Mandal), Prakasam (District), Andhra Pradesh, Pin Code – 523111

Declaration

I hereby declare that the above-furnished particulars are true to the best of my knowledge and belief.

Date:
Place: Penna Maheshbabu