Sandhya Kumari

Cloud Engineer

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Professional Summary

Aspiring **Cloud Engineer** with strong expertise in architecting and managing cloud infrastructure on **AWS** and **Azure**. Proficient in **Infrastructure as Code (IaC)** using **Terraform** to provision scalable environments. Skilled in container orchestration with **Kubernetes (EKS)** and configuring cloud networking (**VPC**, Load Balancing). Dedicated to optimizing cloud resource utilization, ensuring **high availability**, and implementing robust security best practices.

Technical Skills

Cloud Platforms	**AWS (EC2, S3, VPC, RDS, EKS)**, **Azure**, Google Cloud Concepts
Infrastructure as Code	**Terraform**, CloudFormation, Ansible, Configuration Management
Networking & Security	**VPC Design**, Subnets, Security Groups, IAM Roles, **Load Balancing (ELB/ALB)**
Containers & DevOps	**Docker**, **Kubernetes**, Jenkins, CI/CD Pipelines, Git
Monitoring & OS	**CloudWatch**, Prometheus, Grafana, Linux Administration (Ubuntu/RHEL)

Technical Experience

07/2025–Present **Cloud Engineer Intern**, *DevOps Quest*, Cloud Infrastructure Design

- **AWS Architecture:** Designed and provisioned a scalable cloud architecture using **AWS services** (EC2, S3, VPC), ensuring fault tolerance for a microservices application.
- **Infrastructure Provisioning:** Utilized **Terraform** to automate the provisioning of cloud resources, establishing reproducible infrastructure across development and production environments.
- **Container Orchestration:** Managed **Amazon EKS** clusters for container orchestration, configuring auto-scaling policies to handle varying load requirements efficiently.
- **Network Security:** Configured **Security Groups**, NACLs, and IAM roles to enforce least privilege access and secure the cloud network perimeter.

07/2024–12/2024 **Software Developer**, *FOODISTA*, Cloud Migration & Hosting

- **Cloud Deployment:** Deployed and managed the backend application on **AWS EC2** instances, utilizing Application Load Balancers (ALB) to distribute traffic for 1,000+ users.
- **Database Management:** Administered cloud-hosted **MongoDB** clusters, implementing backup strategies and ensuring data consistency across availability zones.
- **Scalability:** Implemented **auto-scaling** configurations to handle peak traffic loads during ordering hours, ensuring 99.9% system uptime.
- **Cost Optimization:** Monitored cloud resource usage and optimized instance types, significantly reducing operational costs while maintaining performance.

Education

2022–2026 **B.E. Computer Science (Specialization in Cloud Computing)**, *Chandigarh University*, Punjab
CGPA: 7.65
Relevant Coursework: Cloud Architecture, Distributed Systems, Network Security, Virtualization Technology.

2022 **Intermediate (Class XII)**, *KV AFS High Grounds*, Chandigarh, *82%*

Academic Research & Projects

01/2023–03/2023 **Research Analyst**, *Cloud Security Architectures*

- **Architecture Analysis:** Analyzed **cloud-native architectures** for large-scale systems, focusing on data residency and compliance in multi-cloud environments.
- **Security Protocols:** Researched best practices for securing **public cloud** infrastructure against common vulnerabilities and threats.

Certifications & Interests

Certifications	Oracle Cloud Infrastructure Generative AI Professional
Interests	Cloud Native Computing, Multi-Cloud Strategies, Serverless Architecture, Linux Internals