

# Baliram Mannelli

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Current location: Hyderabad

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## Objective :

I am an **AWS DevOps Trainee** and completed comprehensive training in AWS DevOps and developed practical skills through real-world projects. Eager to contribute to a dynamic team by leveraging my knowledge of cloud infrastructure automation and DevOps practices.

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## Certification :

"**AWS DevOps Master**" certification from **Digital Lync**, demonstrating hands-on expertise in cloud automation, CI/CD pipeline management, Cost optimization and infrastructure automation using AWS and DevOps tools.

[opposite to Cyber-towers Hyd]

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## Bachelor of Technology in Electronics and Communication Engineering

[AUG-2019 - OCT-2023]

Sri Indu Institute of Engineering and Technology

Percentage : 70% [7.31 CGPA]

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## Skills

- **Cloud Platforms:** AWS (S3, EC2, VPC, RDS, IAM, Auto Scaling, CloudWatch, SNS, EBS, EFS, Lambda, CloudFormation, CloudFront, VPC Peering,, EKS, ECS, ECR, Elastic Load Balancing).
- **Containerization:** Docker, Kubernetes.
- **Configuration Management:** Ansible.
- **Version Control:** Git, GitHub.
- **CI/CD Automation:** Jenkins Pipeline.
- **Infrastructure as Code:** Terraform, CloudFormation.
- **System Administration:** Linux(Ubuntu, Amazon Linux), Windows.
- **Monitoring & Logging (SRE):** Prometheus, Grafana, AWS CloudWatch.
- **Programming Languages:** Java, Python.
- **Build Tools:** Maven(Java), npm(JavaScript).
- **Networking:** Networking Fundamentals, VPC setups, security groups, NACLs, NAT, Bastion Host, Routing TCP/IP, HTTP s, DNS, OSI model, Routing, Firewalls, LAN/WAN.

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## Professional Experience

- Gained practical experience in Version Control using Git, managing code changes, applied branch protection rules and collaborating with Cross-functional teams.
- Gained hands-on experience with S3, EC2, IAM, EBS, VPC, EFS, SNS, Auto Scaling, CloudWatch, CloudFormation, ELB, RDS for cloud architecture management.
- Setup VPC, Subnets, Route Tables, Internet Gateways, Blocked suspicious IP or subnet via NACL and SG.
- Managed and configured AWS IAM Users, Groups, Roles, Policies, and permissions to ensure secure access control and implement best security practices.
- Expertise in Docker, including creating and managing Dockerfile, Docker images and containers and deploying microservices for enhanced scalability helps in reducing downtime by optimization of resource usage.
- Configured S3 buckets with various lifecycle policies to transitioning of data to different storage classes based on access pattern.

- Analyzing code quality using static code analysis tools like SonarQube.
- Proficient in Linux system administration, including server management, configuration, automation, security hardening, and troubleshooting across various distributions.
- Building an artifact using Maven or node based upon the project and taking the backup of the artifact in Nexus repository.
- Hands-on experience with Ansible for configuration management building playbooks.
- Terraform for infrastructure management and automation and consistent infra deployment
- Configure Elastic load balancer to distribute the traffic among the servers.
- Implemented CI/CD pipelines using Jenkins for automated application deployment.
- Experienced in configuring and managing Kubernetes clusters for scalable, fault-tolerant systems on AWS using Auto Scaling and Elastic Load Balancers.
- Configured and managed NAT Gateways and Bastion Hosts to ensure secure, controlled access to private instances .
- Implemented proactive monitoring and alerting using Prometheus, Grafana and CloudWatch, identified complex issues and fixed it, reduced system downtime by 15%.

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## **Projects:-**

### **Infrastructure as Code - Automated VM Provisioning & Configuration**

- Tools & Technologies: Terraform, Ansible, AWS Cloud Provider API, Linux, Windows Server, Git, YAML.

Description: Designed and implemented an Infrastructure as Code (IaC) solution enabling clients to request virtual machines with custom configurations, automated provisioning via Terraform, and pre-installed tools/software via Ansible, ensuring all resources remained within the company network. Built reusable Terraform deployment files to speed up deployments .

### **Custom VPC Design and Implementation on AWS for Secure Multi-Tier Architecture**

- Designed and implemented a custom VPC with multiple subnets, route tables, security groups and NACLs based upon user requirement. With public and private subnets for web and database servers, leveraging security groups and route tables to enforce controlled access. Configured internet-facing web servers and restricted database servers to internal SSH access exclusively from web servers.

### **Capstone DevSecOps Mega Project**

- Tools & Technologies: AWS EKS, Terraform, Jenkins, SonarQube, Nexus, Trivy, Docker, Kubernetes, HashiCorp Vault, Prometheus, Grafana, Linux Ubuntu, GitHub
- Description: Designed and deployed a production-grade DevSecOps ecosystem LMS App on AWS, integrating CI/CD pipelines, security scanning, monitoring, and secret management for a cloud-native .

### **Prometheus and Grafana project**

- Implemented Prometheus and Grafana for real-time monitoring and visualization of system metrics, setting threshold values and enabling alerting, proactive issue resolution. Configured custom dashboards and alerts to track server health, resource utilization, and application performance.

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## **Additional Information**

**Communication:** English, Telugu, Hindi, Kannada.

**Strengths:** Self-motivated, quick learner, adaptable to changing environments.

**Hobbies:** Listening to music and exploring new places.

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**Declaration :** I hereby declare that the above information is true to the best of my knowledge and belief.

**Baliram Mannelli**