**Ganga Manikanta Reddy Mooli**

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**WORK EXPERIENCE**

**Western Illinois University** | *DevOps Engineer | Macomb, IL*  June2024 – May 2025

* Participated in Agile ceremonies and release planning, ensuring delivery aligned with business needs.
* Replaced manual infrastructure setups by automating VPCs, ELBs, S3, Security Groups using CloudFormation and Terraform.
* Created 50+ Ansible playbooks, accelerating VM provisioning by 70% and minimizing manual errors.
* Automated host file updates and log rotations using Bash, Python and Shell scripts, reducing incidents by 30%.
* Built CI/CD pipelines using AWS CodePipeline, CodeBuild, Docker, and SonarQube, streamlining deployments and enabling continuous testing.
* Enhanced container security by integrating Trivy scans into CI pipelines, identifying vulnerabilities before production release.
* Used Argo CD with Helm, Kubernetes, and GitOps for orchestrating application rollouts with Blue/Green and Canary deployment strategies to minimize risk during production changes.
* Implemented multi-region deployment in Jenkins pipelines, reducing deployment time by 67% and supporting 5+ regions.
* Integrated AWS Secrets Manager, HashiCorp Vault to securely manage application credentials and secrets across environments.

**NTT Data Global Delivery Services** | *Cloud DevOps Engineer | Bengaluru, India* Aug 2021 - June 2023

* Employed version control practices using Git, effectively managing script versions, tracking changes, and collaborating with team members to maintain code consistency.
* Built multi-tier AWS architecture with VPC, EC2, RDS, ALB, and Security Groups to ensure compliance and scalability.
* Created reusable Terraform modules for standardized resource configurations, promoting best practices and reducing setup time for new environments
* Implemented and maintained containerized applications using Docker, leveraging Kubernetes for orchestration to ensure high availability, scalability, and fault tolerance in production environments.
* Created and maintained full CI/CD pipelines using Jenkins and GitHub Actions, automating build and deployment processes that reduced integration time by 40%.
* Integrated OpenTelemetry for distributed tracing and enhanced observability, reducing MTTR by 25% across microservices.
* Employed logging and monitoring tools (Prometheus, Grafana, Elasticsearch) to develop dashboards, resulting in a 30% increase in system observability and faster issue resolution.
* Reduced AWS costs through serverless solutions with Lambda, Step Functions, Athena, and Glue.

**GlobalTek Pro Solutions** | *Systems Engineer* | *Bengaluru, India* July 2019 - July 2021

* Involved in setting up JIRA as a defect-tracking system and configuring various workflows, customizations, and plugins for the JIRA bug/issue tracker.
* Leveraged AWS tagging policies, cost allocation reports to enhance visibility into infrastructure usage and support budget planning.
* Developed Bicep templates for Azure deployments to complement Terraform usage, expanding IaC coverage across cloud platforms.
* Managed Linux systems and configured core network services (DHCP, DNS, firewalls) for secure cloud operations.
* Developed Python and PowerShell scripts to automate daily tasks, improving operational response by 40%.
* Automated infrastructure patch management and OS-level updates across hybrid environments using Ansible Tower workflows.
* Conducted security hardening using IAM policies, MFA, SAML, OAuth2, and vulnerability scans with Qualys and Nessus.
* Configured TLS/SSL certificates, VPNs, and centralized compliance logging with CloudTrail and AWS Config.
* Assisted in monitoring and analyzing network traffic for potential security threats in a cloud environment. Responded to alerts using tools like Splunk and AWS CloudTrail, reducing incident response time by 15%.

**SKILLS**

**Programming & Scripting:** Python, Golang, C, C#, Java, Groovy, Bash, Shell, PowerShell

**Cloud Platforms & Infrastructure as Code:** AWS, Azure, GCP, Terraform, Bicep, CloudFormation

**CI/CD Tools:** Jenkins, GitHub Actions, GitLab CI, AWS CodePipeline, ArgoCD

**Monitoring & Logging:** Prometheus, Grafana, ELK Stack, Datadog, Splunk, OpenTelemetry

**DevOps Tools:** Bitbucket, Jenkins, Docker, Kubernetes, GitHub, SonarQube, ArgoCD, Helm charts, Nexus, Agile, Jira

**Security & IAM:** IAM, MFA, OAuth2, SAML, Nessus, Qualys, Trivy, HashiCorp Vault, AWS Config

**Version Control & Container Orchestration:** Git, Bitbucket, GitHub, Docker, Kubernetes, Helm

**Networking & Databases:** DHCP, DNS, TCP/IP, VPN, Firewalls, SQL, MySQL, PostgreSQL, Amazon RDS, DynamoDB

**EDUCATION**

**Western Illinois University** | *Master of Science in Computer Science* Aug 2023 – May 2025

Cloud computing, Operating Systems, Cyber Security, Networking, Data Analysis, Artificial Intelligence

**CERTIFICATIONS**

* AWS Certified: Solutions Architect Associate
* Microsoft Certified: Azure Developer Associate