

Ganga Manikanta Reddy Mooli

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WORK EXPERIENCE

Western Illinois University | DevOps Engineer | Macomb, IL

June 2024 – 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