Nithin Reddy Gandlapati

DevOps & Cloud Engineer

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Summary

DevOps and Cloud Engineer with expertise in AWS, Kubernetes, Terraform, and CI/CD automation. Managed deployment and infrastructure for 10+ projects, ensuring scalability and security. Skilled in containerization, orchestration, and automation using Jenkins, Docker, and ArgoCD. Focused on optimizing availability and minimizing downtime through proactive monitoring and automated rollbacks. Strong problem-solving mindset with a passion for creating reliable and efficient systems.

WORK EXPERIENCE

SURE Trust

AWS & DevOps Industrial Training and Internship   Aug 2024 - Dec 2024

- **Technical Skills & Training:** Completed an intensive four-month training program, gaining hands-on experience in AWS, Terraform, CI/CD, Jenkins, Linux, Shell Scripting, Docker, and Kubernetes, with a strong ability to quickly adapt to new technologies.
- **Project Experience:** Successfully executed 10+ projects, implementing cloud, automation, and DevOps best practices to design, deploy, and manage scalable infrastructure solutions.

Oralens Healthcare LLC

IoT prototyping in healthcare industry   Nov 2023 - Feb 2024

- **UI/UX Design:** Performed UI/UX research and created wireframes to enhance user experience and interface design.
- **Product Design:** Designed conceptual products using 2D and 3D modeling techniques to visualize and develop innovative solutions.
- **Prototyping & Refinement:** Built and refined prototypes to test and improve product functionality and design.

Arc Labs

Internet of Things PCB Designer   Aug 2023 - Dec 2023

- Designing PCB boards for home automation

EDUCATION

Malla Reddy University (Hyderabad)

Computer Science and Engineering (Internet of Things)   June 2021 - May 2025

Royal Jr college (Hyderabad)

Intermediate   May 2019 - May 2021

SKILLS

- **Cloud Platforms:** Amazon Web Services , Microsoft Azure, Google Cloud Platform.
- **DevOps & Automation:** Terraform, Ansible, Jenkins, ArgoCD.
- **Containerization:** Docker, Kubernetes, Helm.
- **Monitoring & Logging:** Prometheus, Grafana.
- **Scripting & Programming:** Python, Shell Scripting.
- **Databases :** Mysql, mongodb
- **Web Technologies:** HTML, CSS, Tailwind CSS, Java Script, React.JS

CERTIFICATIONS

Four months industrial training in Cloud Computing and DevOps SURE TRUST ↗

AWS Cloud Technical Essentials [↗]

Terraform KodeKloud [↗]

Jenkins Pipeline KodeKloud [↗]

Letter of Recommendation from Oralens Healthcare LLC [↗]

kubernetes KodeKloud [↗]

PROJECTS

Cloud-based CI/CD Pipeline for a Web Application [↗]
- **Implemented CI/CD pipeline using Jenkins** for automated builds, code quality checks (SonarQube), security scanning (Trivy), Docker image creation, and deployment to AWS ECR.
- **Provisioned AWS infrastructure using Terraform**, deploying EC2 instances, EKS clusters, security groups, and IAM roles for a scalable cloud-native architecture.
- **Managed Kubernetes deployments with ArgoCD**, ensuring GitOps-based continuous delivery, automated rollbacks, and seamless updates on AWS EKS.
- **Integrated security and monitoring tools**, including Aqua Trivy for vulnerability scanning and Prometheus & Grafana for real-time cluster monitoring and alerting.
- **Deployed a production-ready Amazon Prime Web App clone** leveraging AWS services (ECR, EKS, Route 53) with automated scaling, monitoring, and centralized logging.

E-Waste Recycling Locator (Cloud-Based Web Application) [↗]
- Developed a cloud-native web application that helps users locate nearby **e-waste recycling centers** using **Google Maps API**.
- Integrated **Google Cloud services (Compute Engine, Firestore, Firebase, Load Balancer)** for scalability and reliability.
- Implemented a **leaderboard system** to encourage user participation and track recycling efforts.

Deploying a three tier application in AWS [↗]
- **Designed & deployed a scalable three-tier architecture on AWS** using VPC, EC2, ALB, Auto Scaling, and Aurora MySQL.
- **Implemented secure networking** with security groups, IAM roles, NAT Gateway, and Route 53 for controlled access and traffic flow.
- **Automated deployment & monitoring** using S3 for code storage, CloudWatch for monitoring, and CloudTrail for auditing.

Java Project Deployment with CI/CD on AWS using Kubernetes [↗]
- **Automated CI/CD Pipeline**: Uses Jenkins to automate building, testing, and deploying a Java application on Kubernetes.
- **Infrastructure as Code (IaC)**: Terraform provisions AWS EC2 instances (&) for deployment.
- **Security & Access Management**: SSH key-based authentication, Jenkins credentials, and DockerHub/GitHub integration for secure automation.
- **End-to-End Automation**: GitHub webhooks trigger CI/CD pipelines, ensuring continuous deployment with minimal manual intervention.

Additional Projects available on GitHub [↗]

ACCOMPLISHMENTS

Excellence in IoRT with Artificial Intelligence workshop Technex'24
Secured 1st rank in the "IoRT with Artificial Intelligence" workshop at Malla Reddy University, organized in collaboration with IIT BHU's Technex'24.

Workshop Coordinator – Advanced IoT Technex'24, IIT BHU & VisionXLab
Coordinated the "Advanced IoT" workshop at Malla Reddy University in collaboration with IIT BHU's Technex'24 and VisionXLab.