

# Nithin Reddy Gandlapati

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## Summary

A recent computer-science graduate who has already containerised and deployed 7+ academic and open-source projects on Cloud with Kubernetes, Terraform and Jenkins. Comfortable spinning up secure, cost-efficient cloud environments (EC2, EKS, RDS, S3) and CI/CD pipelines that push code to production in < 5 min. Currently extending skill-set into React and JavaScript to craft responsive, modern front-end interfaces. Fast learner and passionate about automating everything that can be scripted.

## 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 5+ 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

- Designed compact, Two-layer PCB boards for Wi-Fi-enabled home-automation nodes using ESP32 and relay modules. Created schematics in EasyEDA.

## 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, Firestore.
- **Web Technologies:** HTML, CSS, Tailwind CSS, JavaScript, ReactJS.

## 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

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### 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.

### Analytics Dashboard

- A modern, real-time analytics dashboard built with React, featuring interactive charts, live data updates, and comprehensive filtering capabilities.

**Additional Projects available on GitHub** 

## ACCOMPLISHMENTS

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### 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.