

Etukuri Surendra Babu

6281345040 | esurendra213@gmail.com | esurendrababu | in surendra-babu-etukuri-219280338

Summary

B.Tech graduate in Electrical and Electronics Engineering with hands-on experience in **Cloud Computing, DevOps, and Full-Stack Web Development**. Skilled in **Python, Django, MySQL, React.js, AWS, Terraform, Jenkins, Docker, and ArgoCD**. A results-driven professional with strong **analytical, problem-solving, and collaboration** skills, passionate about building scalable and efficient solutions

Projects

AWS Three-Tier DevOps Pipeline

AWS, TERRAFORM, JENKINS, DOCKER, ARGOCd, AMAZON EKS, RDS, IAM, CLOUDWATCH

- Built and deployed a scalable three-tier architecture using Terraform for Infrastructure as Code (IaC) on AWS.
- Automated CI/CD pipelines with Jenkins for containerized Node.js applications and integrated ArgoCD for continuous deployment on EKS.
- Configured RDS for backend data management and implemented proactive monitoring with AWS CloudWatch for reliability.

Scalable Netflix-Style Application Deployment

AWS, TERRAFORM, JENKINS, DOCKER, NEXUS, TOMCAT, PROMETHEUS, GRAFANA, SLACK

- Designed and automated a Netflix-style web application infrastructure using Terraform and AWS for scalability and availability.
- Configured Jenkins CI/CD pipelines with Docker and Nexus for artifact storage and Tomcat for seamless deployment.
- Integrated Prometheus and Grafana dashboards for real-time monitoring, with Slack notifications for build status alerts.

Interactive Python Learning Web App (Internship Project)

HTML, CSS, JAVASCRIPT, BOOTSTRAP, DJANGO, MYSQL

- Developed an interactive web platform for practicing Python programming with real-time code execution and feedback.
- Implemented Django backend logic integrated with MySQL to store user progress and activity logs.
- Designed a clean and responsive frontend using Bootstrap, enhancing user engagement and learning efficiency.

Underground Fault Detection Using Fiber Transmission Lines

FIBER OPTICS, FAULT DETECTION SYSTEMS

- Engineered a fiber-optic based fault detection system to identify insulation damage, corrosion, and loose connections.
- Developed a signal-based detection algorithm improving fault localization accuracy and response time.
- Enhanced system reliability and sensitivity for real-world underground electrical transmission scenarios.

Skills

Programming & Scripting: Python, Bash

Web Development: HTML, CSS, JavaScript, Bootstrap, React.js

Backend Frameworks: Django

Databases: MySQL, SQL

Cloud Platforms: AWS, GCP

DevOps & Automation Tools: Docker, Kubernetes, Terraform, Jenkins, Ansible, GitLab, ArgoCD, Maven, SonarQube

Monitoring & Repository Management: Grafana, Prometheus, DataDog, Splunk, Nexus, JFrog

Version Control: Git, GitHub

Operating Systems: Linux, Ubuntu

Soft Skills: Analytical Thinking, Decision-Making, Quick Learner, Team Collaboration, Problem-Solving, Conflict Resolution, Proactive

Certificates

AWS & DevOps NareshIT

Full Stack Development with Python LevelUp Technologies

Python (Basic to Advanced) Think Champ

Linux, Python Front Line Media

Education

JNTUA University | Audisankara College of Engineering & Technology; CGPA: 7.60

BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING

SBTET AP; Percentage: 71.92%

DIPLOMA IN ELECTRICAL ENGINEERING