Immareddy Aravind

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EDUCATION

- **Vellore Institute of Technology** — Bhopal, Madhya Pradesh
  B.Tech in CSE (Cloud Computing and Automation) **CGPA:** 8.57/10.0 — August 2021 – June 2025
- **Sri Chaitanya Junior College** — Hyderabad, Telangana
  Percentage: 84.2% — June 2019 – March 2021
- **Bhashyam High School** — Hyderabad, Telangana
  CGPA: 10.0/10.0 — June 2018 – April 2019

TECHNICAL SKILLS & TOOLS

- **TechStack:** Python, Docker, SQL, Jenkins, AWS , cAdvisor, Prometheus, InfluxDB, Grafana, Solar-Putty, WinSCP

PROJECTS

AWS Cloud
- Hands-on experience with AWS services: EC2, ELB, S3, VPC, CloudWatch, IAM resulting in increased deployment efficiency.

AWS Order Entry | *HTML/CSS, AWS Lambda, DynamoDB, IAM, CloudWatch*
- Developed a responsive front-end integrated with AWS Lambda for backend logic and DynamoDB for secure order storage.
- Designed IAM roles, robust error handling, and data validation in Lambda functions for better secure processing.
- Monitored application performance and security using AWS CloudWatch, significantly enhancing system scalability and reliability.
- Optimized Lambda functions for faster execution and reduced costs, achieving a 20% improvement in performance.
- Enhanced user experience by integrating real-time order status updates and notification systems.

Netflix Clone – Cloud-Native Web Application | *AWS EC2, Docker, Jenkins, Prometheus, Grafana, Trivy, SonarQube*
- Created a scalable multimedia streaming platform using Docker and AWS EC2 instances.
- Automated CI/CD pipelines with Jenkins, integrating security tools like SonarQube and Trivy for continuous vulnerability scanning.
- Integrated Node-Exporter and Prometheus with Grafana to visualize container performance metrics, improving container health monitoring by50%.
- Configured Prometheus' alerting functions to automatically notify the team of any system degradation or failures.

INTERNSHIPS

DaT Cloud Solutions Private Ltd — Remote
DevOps Intern — December 2024 – January 2025
- Deployed Docker-based applications using multi-stage builds, improving resource efficiency and deployment speed by 40%.
- Orchestrated application deployments via Bitbucket and WinSCP on Solar-Putty servers, enhancing system reliability.
- Utilized cAdvisor, InfluxDB, and Grafana to monitor container performance metrics in real-time; identified critical bottlenecks that improved system response times by an average of 25% during peak usage periods.
- Engineered automation scripts for deployment processes, reducing manual intervention by 40%.

Codtech IT Solutions — Remote
DevOps Intern — June 2024 – August 2024
- Developed CI/CD pipelines with Jenkins, reducing deployment times by 30% and improving integration cycles
- Containerized applications with Docker, streamlining deployment processes and enhancing environment consistency.
- Automated repetitive tasks, reducing manual effort and increasing overall deployment reliability.

ACHIEVEMENTS & RESPONSIBILITIES

- Qualified for round 2 in IDEATHON, showcasing innovative solutions in cloud-based applications.
- Coordinator, Mana Telugu Club VIT Bhopal, organized cultural and tech events enhancing student engagement.
- Member, Sponsorship & Marketing Committee, AdVITya Event, contributing to successful sponsorship acquisition.
- Volunteer, NSS (National Service Scheme), led community service projects focusing on digital literacy.

OTHER INFORMATION

- **Languages:** English, Hindi, Telugu
- **Hobbies:** Music, Media Content Creation, Movie Enthusiast