








Venkatesh Manchala

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SUMMARY

Software Engineer with over 2+ years of experience in automating workflows and enhancing deployment processes for scalable, reliable applications. Expertise in building CI/CD pipelines, containerization, cloud infrastructure, and cross-platform compatibility. Skilled in leveraging tools like Jenkins, Docker, and Kubernetes to optimize development and deployment workflows. Strong background in automation scripting, infrastructure as code (IaC), and monitoring solutions to ensure high availability and performance. Proven success in conducting R&D to introduce best practices that improve operational efficiency and streamline application delivery.

WORK EXPERIENCE

Software Engineer, Darwinbox  June 2023 - Present | Hyderabad, India

CI/CD Pipelines: Designed and implemented Jenkins and Docker pipelines for seamless code integration and automated deployments, reducing deployment times by 50%.

Containerization: Developed and managed Docker containers for scalable application environments, ensuring consistency across development, staging, and production environments.

Cloud Infrastructure: Deployed and managed cloud resources on AWS (EC2, S3, Lambda) for web and mobile platforms, ensuring high availability and cost efficiency.

Monitoring & Logging: Integrated Prometheus and Grafana for real-time monitoring of application performance. Configured ELK Stack for centralized logging and issue resolution.

Infrastructure as Code (IaC): Automated infrastructure provisioning using Terraform, enabling consistent and repeatable environment setups.

Cross-Platform Automation: Ensured seamless deployments across diverse ecosystems, including web, iOS, and Android, by optimizing workflows for multi-environment compatibility.

R&D Initiatives: Conducted extensive research on cloud-native solutions and tools, introducing Kubernetes for container orchestration, improving deployment reliability.

Product Development Intern, Darwinbox Jan 2023- Jun 2023 | Hyderabad, India

Pipeline Optimization: Built CI/CD pipelines integrating Jenkins with Docker, automating test execution and deployment processes.

Cloud Automation: Set up AWS infrastructure with automated backups and cost-effective resource scaling.

Configuration Management: Deployed Ansible scripts to manage server configurations, improving consistency and reducing manual errors.

Documentation: Authored technical documentation for pipelines and workflows, enabling knowledge transfer and process standardization.

Mentorship: Trained junior engineers in DevOps tools and best practices, focusing on automation and cloud infrastructure management.

TECHNICAL SKILLS

DevOps Tools: Jenkins, GitLab CI/CD,

Containerization & Orchestration: Docker, Kubernetes

Infrastructure as Code (IaC): Terraform, CloudFormation, Ansible

Cloud Platforms: AWS (EC2, S3, Lambda), Google Cloud Platform (GCP)

Monitoring & Logging: Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), Splunk

Programming & Scripting: Python, Bash, Java, JavaScript,

Version Control: Git (GitHub, GitLab, Bitbucket)

Databases: MySQL, MongoDB, PostgreSQL

Security: SSL/TLS, HashiCorp Vault, IAM, and Role-Based Access Control (RBAC)

Others: Data Structures, Algorithms, OOPs

RESEARCH ARTICLE

Criminal Face Detection System, [Research Square](#)

- Led the development and authored an article on a Criminal Face Detection System, collaborating with a skilled team on technical aspects.

AWARDS & RECOGNITIONS

- **2nd Prize, Code Innovative Series** by **IncuabeInd** in collaboration with **GitHub**; received a letter of appreciation and a student kit.
- Honorable Mention, All India Essay Writing Event by **Shree Ram Chandra Mission** (SRCM) and UNIC.
- Certificate of Excellence, Software Development Virtual Experience by **Quollab**.
- **2nd Prize**, Chess Competition during High School.

CERTIFICATIONS

- **Talent Next Course on Java J2EE** , Wipro May 2022 - September 2022
- **AI-For-India Event** , Guvi Geek Networks April 2021

EDUCATION

Vardhaman College of Engineering, Hyderabad 06/2019 - 05/2023 | Hyderabad, India
Bachelor of Technology in Information Technology
CGPA : 8.0/10.0

PROJECTS

CI/CD Pipeline for Scalable Applications

Objective: Built robust Jenkins and Docker pipelines to automate code testing and deployment.
Impact: Reduced manual intervention by 80%, accelerated deployment cycles, and improved system uptime.
Technologies Used: Jenkins, Docker, GitLab CI, Python.

Containerized Microservices Architecture

Objective: Migrated monolithic architecture to containerized microservices using Docker and Kubernetes.
Impact: Improved scalability and deployment speed, reduced resource usage by 40%.
Technologies Used: Docker, Kubernetes, AWS.

Monitoring and Logging Solution

Objective: Set up a centralized monitoring and logging system for web and mobile applications.
Impact: Improved incident resolution time by 60% and provided actionable insights into performance bottlenecks.
Technologies Used: Prometheus, Grafana, ELK Stack.

Infrastructure Automation with IaC

Objective: Automated infrastructure provisioning and configuration management for multi-environment setups.
Impact: Reduced setup time by 70% and ensured consistent configurations across all environments.
Technologies Used: Terraform, Ansible, AWS.

MISCELLANEOUS

YouTube Creator: Published over **31 videos** focused on quality and valuable content.
Technical Writer at Infinity Hack Learn: Simplified complexities for enriched learning with clarity and precision.
Personal Motto: Embracing life's journey with grace and gratitude, navigating challenges, finding joy, and savoring every moment.
Languages Known - Telugu, English, Hindi