

# Manepalli Bhargav

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LinkedIn Profile

GitHub

## Experience

### Tata Consultancy Services DevOps Engineer

AUG 2021 – Present  
Hyderabad, India

- Skilled in setting up Dev, QA, UAT, and Production environments, including **VPC** configuration and subnetting.
- Proficient in **Git** and **GitHub** for source code management, ensuring safe repository operations through scheduled backups.
- Expertise in **Maven** for artifact generation and **Nexus** repository management.
- Designed and maintained **Jenkins** workflows and CI/CD pipelines, leading to a **40%** reduction in manual intervention during deployments.
- Worked with **SonarQube** for code quality analysis, ensuring continuous inspection and adherence to coding standards.
- Familiarity with **ArgoCD** for continuous deployment and **GitOps** workflows, ensuring automated and version-controlled infrastructure changes.
- Managed **Docker** containers and orchestrated them using **Kubernetes**, enabling seamless scaling and deployment of applications.
- Served as a **Kubernetes Application Developer** and Administrator, managing and troubleshooting applications to ensure seamless and efficient operations.
- Utilized **Helm Charts** to deploy and manage cloud applications, enabling scalable and repeatable deployments.
- Strong expertise in **Terraform** for provisioning and managing cloud infrastructure, reducing provisioning time by **50%**.
- Collaborated on infrastructure setup and configuration with **AWS** services such as **EC2**, **S3**, **IAM**, **EKS**, **ELB**, **ECR**, and **Systems Manager**.
- Hands-on with AWS services like **CloudWatch** for monitoring and **Compute Optimizer** for resource optimization.
- Utilized **Prometheus** for metrics collection and **Grafana** for advanced monitoring and visualization of system metrics.
- Developed release automation using **Ansible** for streamlined workflows.
- Led the DevOps and Cloud Engineering efforts on a **Platform Engineering** Solution, leveraging Kubernetes, Jenkins, and CI/CD pipelines, which improved deployment frequency by **30%**.
- Developed automation scripts using **Python** to streamline infrastructure operations and eliminate manual tasks.
- Used **Django** to build the Rest APIs for platform engineering solutions. Leveraged python for automation scripts to convert **Make files** to **Bazel** Build files.
- I worked on Bazel Build system and used **Bazel Remote execution** and **remote caching**.

## Education

### SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE

Bachelor of Technology in Electrical and Electronics Engineering (CGPA: 7.2)

July 2021

Bhimavaram, India

## Technical Skills

- **Languages:** Python, Bash Scripting, Golang
- **Technologies:** AWS
- **Tools:** Ansible, Git, GitHub, Docker, Docker-Compose, Kubernetes, Helm, Jenkins, Maven, Bazel, Terraform, Nexus, Prometheus, Grafana, CloudWatch, Argo CD, SonarQube
- **Concepts:** Cloud Computing, DevOps, Linux, Load Balancer, High Availability, Scalability, Compute/VM Recovery, CloudServer Deployment, Web Servers, Database, Project management, Documentation.
- **Soft Skills:** Excellent communication and collaboration skills, Adaptability, Willingness to learn.
- **Other Skills:** Servers, Analytical thinking, Creativity in problem solving, Assertiveness and self-confidence

## Open-Source Contribution

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### Kubernetes Secrets Management Contributor

[September 2024] - Present

- Implemented the `--from-base64-literal` flag for `kubectl create secret generic`, allowing users to create secrets directly from base64-encoded strings.
- Enhanced usability by enabling the creation of secrets with secure encoded values, streamlining the process for users handling sensitive information.
- Submitted a pull request currently under review, actively participating in discussions to refine the feature and address community feedback.
- Collaborated with the Kubernetes community to promote best practices in secrets management and improve overall user experience.

## Certifications

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- Certified Kubernetes Application Developer (CKAD) (see certificate).

## Awards and Achievements

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### Star of the team Award *Tata Consultancy Services*

- Recognized for outstanding performance and contribution to team success.

### Elevate Wings Award *Tata Consultancy Services*

- Achieved for successful completion of the Wings Exam