



# Manas Kapole

## DevOps Fresher

### My Contact

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### Hard Skill

- **Version Control:** Git, GitHub
- **CI/CD:** Jenkins
- **Monitoring:** Grafana, Prometheus
- **Containerization Tool:** Docker, Kubernetes
- **Operating System:** Windows, Linux
- **IAS Tools:** Terraform, Ansible
- **Cloud Technologies:** Amazon Web Services (AWS)
- **Programming Languages:** Basics Of Python & BOTO3, Bash Scripting, Linux

### Certifications

- Basic Introduction to Linux Course
- Getting Started with DevOps
- Python for Everybody
- DevOps Course with Singam

### Other Details

- **Soft Skills:** Team Player, Negotiation, Leadership, Communication
- **Hobbies:** Football, Reading Books

### Achievements

2021– 2022 B.Tech last year project was published on (IJARSCT) as a Research Paper.

### Education

**BE, Mechanical Engineering, Pune University**  
College Of Engineering, Pune (COEP)  
August 2018 to October 2022

### About Me

Fresher with knowledge of **DevOps tools** and techniques, looking to apply my skills in a real-world Projects. Strong understanding of software development and operations, with a focus on automation and efficiency. Eager to continue learning and growing in the field.

### Projects

#### ► Deploying Django Application using Kubernetes

- Build Kubernetes Cluster on AWS from Scratch with **MiniKube**.
- Setup and Managed **Docker Containers** for Django and React application into Kubernetes **Pods**.
- Manage Deployment, Replication, **Auto healing**, **Auto scaling** for kubernetes cluster.
- Manage Network and Services.
- Reduce Downtime by 75% on production environments.

#### ► Automated CI/CD Pipeline Deployment on Webserver using GitHub, Jenkins and Ansible Server

- Creating Repository in **GitHub** CodeCommit and Integrate GitHub to **Jenkins** with Personal Access Token.
- Installing Jenkins, Jenkins Plugin required.
- Created Password less Authentication between Jenkins, **Ansible** and Web server using SSH-Keygen.
- Automate the Deployment process using the **Ansible Playbook**.
- Test the entire CI/CD flow by making the code changes and pushing them to GitHub repository.
- Use "Poll SCM" to automatically trigger the Jenkins job on the developer file commit.
- The Job will automatically build every time developer commits to a file.

#### ► Integrating and Monitoring MySQL Database with Grafana

- Setup **Grafana**, Pulling **MySQL** images, Create MySQL Container in **Docker** and Created Database inside the Container.
- Adding and Updating MySQL data source in Grafana.
- Create and configure dashboards in Grafana to display data from the MySQL database.
- Use Grafana's built-in analytics tools to query and analyze data stored in the MySQL database.

#### ► Building and Managing the AWS Cloud Infrastructure using Terraform (IaC)

- Utilized **Terraform** to provision and configure an **EC2** instance, incorporating necessary security groups, **IAM** roles, and user data.
- Implemented web server software on the instance, such as **Apache** or **Nginx**, using Terraform.
- Utilized Terraform to create and associate an **Elastic IP** and **Route 53** DNS record for the instance.
- Deployed the web application code to the instance via Terraform.
- Automated the entire process of creating, configuring, and deploying a web server through the use of Terraform, ensuring repeatability and version control.