

Kavishwar Khankari

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CLOUD AND DEVOPS PRACTITIONER

Aspiring DevOps engineer with 4+ years of **hands-on experience** in system design, automation, and documentation, gained through a **home lab**, **cloud platform experimentation**, and tinkering with **diverse technologies** and **hardware**. A curious and **driven learner** with a strong capacity to grasp and adapt quickly. Proficient in DevOps tools (**Docker, Kubernetes, Terraform, Jenkins, Ansible**), cloud technologies, Linux systems, and networking fundamentals, with expertise in practices like **CI/CD** and **IaC**. Skilled at analyzing and documenting complex workflows, driven by a **persistent desire to learn** and optimize processes.

TECHNICAL SKILLS

DevOps & Cloud: Docker, Kubernetes, Jenkins, AWS, GCP

Automation & Monitoring: CI/CD, Terraform, Ansible, Auto Scaling, Prometheus, Grafana, Python, Bash

Systems & Networking: Linux, MongoDB, System Design, NGINX, Load Balancing, Git, Vlans

PROFESSIONAL EXPERIENCE

Project: 1) End-to-End DevOps Deployment of to-do app on Self-Built Infrastructure

Technologies Used: Docker, Kubernetes, Jenkins, SonarQube, Trivy, DockerHub, ArgoCD, NGINX, AWS ECR, Terraform, Linux, Prometheus, Grafana.

- Built a **Kubernetes cluster** from scratch on **local hardware** without abstraction layers.
- Deployed a To-Do application with a **Node.js backend, React frontend, and MongoDB database** ensuring **99.9% uptime**.
- Dockerized application components (**frontend and backend**) and integrated an external **MongoDB database**, reducing image size by **25%**.
- Implemented a **CI/CD pipeline** with **SonarQube** for code quality, **Trivy** for security, and **Docker Hub** for image management, cutting deployment time by **30%**.
- Automated deployment using **ArgoCD**, enabling **real-time updates** to the Kubernetes cluster.

Project: 2) E-Commerce Application with 12 microservices Deployment on AWS

Technologies Used: Docker, Jenkins, SonarQube, Trivy, AWS ECR, Kubernetes, ArgoCD, NGINX, RabbitMQ, MongoDB, MySQL, AWS (EKS, ALB), Prometheus, Grafana.

- Deployed a **three-tier application** with **12 microservices** in multiple languages (**Node.js, Java, Python, Golang, PHP, AngularJS**, etc.), achieving scalability to handle **100,000+ users**.
- Automated **CI pipelines** for building, scanning (**Trivy**), testing, and pushing **Docker images** to **AWS ECR**, reducing deployment time per microservice by **40%**
- Implemented **CD** with Kubernetes manifests, automated using **ArgoCD** and deployed on **Amazon EKS** with **ALB**, ensuring fault tolerance during high loads.

Project: 3) PolyScaleMesh: Secure Hybrid Cloud with Autoscaling

Technologies Used: Kubernetes, Terraform, Ansible, Docker, Jenkins, SonarQube, Trivy, NGINX, Global Load Balancer, Prometheus, Grafana, AWS, GCP, Linux.

- Built a **hybrid cloud solution** to balance traffic, directing **80% of routine workloads** to **local servers** and scaling to **cloud resources** during peak demand, reducing operational costs by **60%**.
- Automated **infrastructure provisioning** and scaling using **Terraform** and **Ansible**, optimizing **cost efficiency**, ensuring consistent deployment and cutting manual effort by **95%**.
- Managed **containerized applications** with **Kubernetes**, utilizing **NGINX** for intelligent traffic routing.
- Integrated **Prometheus** and **Grafana** for **monitoring**, reducing incident response time by **50%**.
- Streamlined deployments with **CI/CD pipelines** in **Jenkins**, ensuring code quality and security with **SonarQube** and **Trivy**.

EDUCATION

BACHELORS IN COMPUTER ENGINEERING

Pune Vidyarthi Griha's college of Engineering and Technology, Pune

CGPA - 7.73

2021-25

10th

Chavara English High School.

SSC- 86.4%

12th

Zulal Bhilajirao Patil College

HSC - 74%

PERSONAL PROJECTS & ACHIEVEMENTS

- HomeLab Setup:** Built a personal cluster using three PCs for hands-on DevOps learning.
- Cozmo Clench** (IIT BOMBAY Techfest 2020): Secured 4th place in the Cozmo Clench competition.
- Co-Founder, CodePVG:** Led technical initiatives as Head of Innovation and Technical Head at CodePVG.
- Technical Joint Head, ACES:** Currently leading technical projects as Technical Joint Head in ACES committee.
- IoT Home Automation:** Automated my entire home with IoT technologies.