# ONKAR MUMBREKAR

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## EXECUTIVE SUMMARY

Kubernetes and DevSecOps expert with 6+ years of experience across high-tech manufacturing and internet industries. Adept at multi-cloud Kubernetes management, infrastructure automation, and secure deployment pipelines. Managed MariaDB and PostgreSQL HA clusters, designed task schedulers for AI training pipelines, and automated large-scale HPC infrastructure with Ansible. Known for proactive problem-solving, cross-functional collaboration, and driving innovation in 5G and AI platforms.

## FUNCTIONAL EXPERTISE

- **Kubernetes (EKS, GKE, MicroK8s, Kubeadm)**
- **PostgreSQL & MariaDB HA Cluster Management**
- **Infrastructure Automation (Ansible, Python, Shell)**
- **CI/CD (GitLab, Jenkins, Docker)**
- **AWS/GCP Infrastructure & Monitoring (Prometheus, Grafana)**

- **Security (Vault, Nessus, On-prem & Cloud Security Best Practices)**
- **Logging/Monitoring Stack (Kibana, ElasticSearch, Prometheus)**
- **AI Pipelines & Task Scheduling**
- **Excellent communication and remote collaboration skills**

## PROFESSIONAL EXPERIENCE

**Pegatron Corp – Engineer/Senior DevSecOps Engineer/Project Specialist**
*Nov 2020 – Present | Taipei, Taiwan*

**Cloud-Native Infrastructure:**

- Designed and maintained Kubernetes clusters (EKS, GKE, on-prem via kubeadm & MicroK8s).
- Created Helm charts for internal microservices and managed deployment rollouts across environments.
- Architected and currently manage MariaDB HA clusters and PostgreSQL HA clusters using Patroni, Repmgr, and custom backup/restore pipelines using PgBackRest and Mariabackup. Implemented automatic failover, replication monitoring, and disaster recovery procedures.
- Designed and implemented GitLab-based CI/CD pipelines for 20+ services, enabling faster and secure deployments.
- Automated provisioning of cloud and HPC infrastructure using Ansible, reducing manual setup time by 80%.
- Designed a task scheduler for end-to-end ML training workflows supporting model queuing, logging, and failure recovery.
- Integrated training infrastructure with monitoring tools (Prometheus, Grafana) for GPU utilization tracking.

- Conducted security assessments using Nessus, implemented secure secrets management using Vault.
- Maintained LXD-based virtual infrastructure and overlay networks using MicroOVN.
- Participated in R&D projects on AI and 5G network automation.
- Trained junior team members in Kubernetes and DevOps practices.

**Smart Solutions India – Software Engineer**
*Nov 2016 – Feb 2018 | Mumbai, India*

- Administered internal servers and supported in-house web applications and infrastructure.
- Automated routine admin tasks using shell scripts and cronjobs.

## CERTIFICATIONS

- Certified Kubernetes Administrator (CKA) – LF (2021, Renewed 2024)
- Certified Kubernetes Application Developer (CKAD) – LF (2024)
- Kubernetes and Cloud Native Associate (KCNA) – LF (2024)
- TOEIC – 870 (ETS, 2020)

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## ACHIEVEMENTS

- Co-authored: *"Overview of Cyberattacks Against Radio Access Networks..."* (2021)
- Successfully led 5+ PoC projects on cloud-native platforms
- Spearheaded automation of remote diagnostics and upgrade infrastructure

## OTHER RELEVANT INFORMATION
**Languages:** English (Full Professional), Marathi(Native), Hindi(Native), Chinese(Elementary).
**Programming Languages:** Python.
**Tools and Technologies:** Kubernetes, Docker, Ansible, PostgreSQL, MariaDB, Jenkins, GitLab, Prometheus, Grafana, OpenStack, LXD, Shell, Python, jenkins, AWS, GCP, Vault, Nessus, Helm, prompt engineering.