

MAHESH DIWAN

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SUMMARY

DevOps-focused CS graduate with internship experience deploying containerized applications on AWS ECS, EKS, and EC2. Comfortable with the full cycle — writing Kubernetes manifests, building GitHub Actions pipelines, configuring load balancers, and debugging production issues. Looking to join a team where infrastructure reliability matters.

EXPERIENCE

Associate Software Engineer (DevOps Intern) | ThynkTech India Dec 2025 – May 2026 | Pune

- Deployed containerized MERN-stack apps to AWS ECS (Fargate) and EKS — configured task definitions, service auto-scaling, and ALB target groups.
- Provisioned EKS clusters with eksctl; authored Kubernetes manifests covering Deployments, Services, ConfigMaps, Secrets, and HPA.
- Set up CloudWatch dashboards and alarms on ECS CPU/memory metrics; configured S3 + CloudFront for static hosting and tightened IAM policies.
- Built GitHub Actions pipelines: Docker build → push to ECR → rolling ECS deployment, triggered on every merge to main.
- Debugged six sequential production issues across IAM, Docker networking, Express routing, env variables, and Nginx reverse-proxy config.

PROJECTS

LinkedIn Clone MERN — ECS / EKS Deployment | [GitHub](#) Node.js · React · MongoDB · Docker · ECS/EKS · ECR · Terraform · Prometheus · GitHub Actions

- Full-stack social platform (auth, posts, connections, notifications); containerized with Docker Compose for dev/cloud parity.
- Deployed to ECS Fargate behind ALB; migrated to EKS with HPA autoscaling. CI/CD via GitHub Actions — build, push ECR, rolling deploy.
- Includes Prometheus metrics config and Terraform HCL definitions for reproducible infra provisioning.

Distributed Voting App — Kubernetes | [GitHub](#) Python · Node.js · C# · Redis · PostgreSQL · Docker · Kubernetes

- Orchestrated five microservices (vote, worker, result, Redis, PostgreSQL) with Kubernetes manifests and Docker Compose.
- Multi-language architecture — Python frontend, C# worker, Node.js results API — communicating over internal cluster DNS.

CI/CD Pipeline — Flask on AWS EC2 | [GitHub](#) Python · Flask · Docker · GitHub Actions · AWS EC2

- Automated build, test, and deploy to EC2 via GitHub Actions; Dockerized app with consistent environment across stages.

Chat with PDF — AI Q&A Tool | [GitHub](#) Python · Streamlit · Hugging Face Transformers · PyPDF2

- Natural-language Q&A over uploaded PDFs using semantic search and transformer-based embeddings.

SKILLS

Cloud & Infra: AWS (ECS, EKS, EC2, S3, ECR, ALB, CloudWatch, IAM, VPC, CloudFront), Terraform, Linux

Containers & K8s: Docker, Docker Compose, Kubernetes (Deployments, Services, HPA, ConfigMaps, Secrets), eksctl

CI/CD & Tooling: GitHub Actions, Jenkins, SonarQube, Prometheus, Nginx, Git, Bash

Languages: Python, JavaScript, Bash, C++, Java

EDUCATION

B.E. Computer Science Engineering

2023 – 2026 | CGPA: 8.7

Marathwada Mitra Mandal's Institute of Technology (MMIT), Pune

Diploma in Computer Engineering

2021 – 2023 | 84%

Government Polytechnic Jalna

SSC (10th)

2021 | 90%+

Maharashtra State Board

CERTIFICATIONS

Prompt Design in Vertex AI — Google Cloud