

Aryan Mehesare

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DevOps Engineer | Full-Stack Developer

Summary

Pre-final year Computer Science student & DevOps Engineer skilled in Docker, Kubernetes, and AWS. Experienced in automating CI/CD pipelines, implementing DevSecOps workflows, and optimizing cloud infrastructure. Passionate about scalable systems, distributed computing, and open-source contributions.

Education

Vellore Institute of Technology

B.Tech in Computer Science and Engineering — CGPA: 8.81

Chennai, India

August 2023 – August 2027 (Expected)

The Bishop's Co-Ed School

High School — 98.4% (ICSE), 82.2% (CBSE)

Pune, India

July 2009 – May 2022

Experience & Leadership

Google Developer Groups (GDG) on Campus

Core Team Member

Oct 2024 – Present

VIT Chennai

- Spearheaded technical workshops on Web Architecture and Next.js, upskilling **100+ students** in server-side rendering.
- Collaborated with cross-functional teams to organize hackathons, managing logistics and technical mentorship.

Projects

Video Processing Microservices Platform

Nov 2025 – Present

- Architected a scalable, event-driven microservices platform using **Go** (golang) and **Kubernetes** for video processing.
- Reduced processing latency by **30%** by implementing a concurrent Go-based API Gateway and gRPC communication.
- Designed a robust message queue system using **RabbitMQ** to handle asynchronous tasks and prevent service bottlenecks.
- Tech Stack: Kubernetes, gRPC, Go, FastAPI, RabbitMQ, Redis, PostgreSQL, Typescript, Python

End-to-End CI/CD DevSecOps Pipeline

Oct 2025

- Automated the software delivery lifecycle using **Jenkins** and **ArgoCD**, reducing deployment time from 20 to 5 minutes.
- Integrated **Snyk** and **Trivy** for container security scanning, patching critical vulnerabilities pre-deployment.
- Implemented **GitOps** workflows to manage Kubernetes manifests, ensuring infrastructure consistency and auditability.
- Tech Stack: Jenkins, Docker, Kubernetes, ArgoCD, GitOps, SonarQube, Snyk, EC2, S3

Single Image Super Resolution (SRCNN)

Aug 2025 – Sep 2025

- Developed and trained a Super-Resolution CNN model in PyTorch, achieving high PSNR/SSIM scores on the DIV2K dataset.
- Optimized model training workflows on **AWS SageMaker**, utilizing S3 for efficient data storage and retrieval.
- Implemented experiment tracking with **MLflow** to analyze hyperparameter performance across different scaling factors.
- Tech Stack: PyTorch, MLflow, AWS SageMaker, S3, Python

SafeScape – IoT & ML Safety Platform

Sep 2024 – Nov 2024

- Engineered a real-time safety platform featuring geofencing and safe routing algorithms using Next.js and FastAPI.
- Deployed containerized microservices on **AWS EC2** via Docker and Nginx as reverse proxy, handling concurrent connections.
- Designed cloud infrastructure to serve ML inference workloads (OpenCV, audio classification) alongside the web application.
- Tech Stack: Next.js, FastAPI, PostgreSQL, Docker, AWS EC2, Nginx

Technical Skills

Languages: Go, Python, C/C++, Java, JavaScript/TypeScript, SQL, Bash

Web & Data: Next.js, React.js, FastAPI, Node.js, gRPC, RabbitMQ, Redis, MongoDB, PostgreSQL

DevOps & Cloud: Docker, Kubernetes, Jenkins, ArgoCD, Terraform, AWS (EC2, S3, IAM), Git, GitHub/GitLab CI, Linux, Nginx

Monitoring & Security: Prometheus, Grafana, Snyk, Trivy, OWASP ZAP, SonarQube, Sealed Secrets

Certifications

- Oracle Cloud Infrastructure 2025 Generative AI Professional (1ZO-1127-25)
- Kubernetes Administration & Application Development | KodeKloud, AWS Cloud Architecture | Udemy

Achievements

- **Winner** — Sanrakshan Hackathon, IIT Bombay Techfest 2024
- **Top 10** — Smart India Hackathon (SIH) Internal Rounds (2023, 2024)