Mukesh T

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📍 Nagapattinam, Tamil Nadu

Professional Summary

Final year B.Tech student in Computer Science and Engineering(Cybersecurity and Digital Forensics) at VIT Bhopal with hands-on practice in AWS Cloud, DevOps, and containerization tools like Docker and Kubernetes. I have familiarity with Infrastructure as Code using Terraform, version control with Git, and CI/CD pipelines using tools like Jenkins. While I am still developing my ability to write Python code from scratch, I can confidently understand and work with existing scripts. I enjoy collaborating with technical teams, sharing knowledge with peers, and continuously learning to improve. Known for being a fast learner and team player, I'm ready to pick up any technology the role demands,driven by curiosity, adaptability, and a passion for solving real-world challenges.

Education

VIT, Bhopal	2022–2026
B.Tech, Computer Science and Engineering (Cybersecurity & Digital Forensics)	*CGPA: 8.39/10*
Chinmaya Vidyalaya, Nagapattinam	2022
Higher Secondary Education (PCMC Stream)	*76%*
Chinmaya Vidyalaya, Nagapattinam	2020
Secondary Education	*84%*

Projects

Tranquilizing Dart Drones (Group Project) (Link)

- Co-developed an autonomous drone system that detects and tracks animals using YOLOv8 computer vision and OpenCV for non-lethal wildlife control applications.
- Implemented MAVLink (pymavlink) communication protocols to enable real-time flight navigation, target alignment, and automated dart mechanism triggering for safe animal tranquilization.

DevOps Learning Project: CI/CD & Kubernetes Setup

- Designed and implemented comprehensive CI/CD pipelines using Jenkins and GitHub Actions to automate application deployment with Docker containerization and Kubernetes orchestration in local development environments.
- Configured monitoring infrastructure with Prometheus for metrics collection and Grafana for data visualization, gaining practical experience in system observability and performance monitoring.

Fade Away Chat App (Link)

- Developed a privacy-focused ephemeral messaging application with Firebase real-time database backend for secure communication.
- Engineered for enhanced security with message auto-deletion features, ongoing development includes UI improvements and additional privacy features.

Technical Skills

DevOps & Cloud: AWS , Git, GitHub , Jenkins, Argo CD, GitOps, Infrastructure as Code (Terraform), Docker, Kubernetes

Monitoring Prometheus, Grafana

Programming : Python , HTML, CSS

Cybersecurity: Cloud Security, Incident Response, Vulnerability Assessment, Security Best Practices

Certifications and Badges (Certificates) & (Badges)

AWS Cloud Practitioner Essentials - Comprehensive foundation in AWS cloud services and best practices

AWS Digital Badges: Storage, Compute, Networking, Security, Databases, Cloud Operations, Serverless Architecture

Google Certified Cybersecurity Professional - Industry-recognized cybersecurity expertise and practices

Data Science with Python - Comprehensive training in data analysis, visualization, and machine learning using Python

Additional Certifications: Incident Response Fundamentals, Blockchain Technology, Computer Networking Essentials

Leadership and Activities

Technical Team Member and Event Organizer: Model United Nations (MUN) Club, VIT Bhopal

Event Organizing Committee Manager: Tamizh Mandram Cultural Society, VIT Bhopal