Namratha

DevSecOps Engineer
+91 6362807044

LinkedIn Profile
GitHub Profile
namratha343@gmail.com

EXPERIENCE

•DevOps Lead *Sept 2025 – present*

DSCE-AIML/NEXUS Bangalore

– **Led the DevOps initiative** for **AIML Nexus**, the department's AI-driven chatbot platform, deploying and managing scalable workloads on **Kubernetes + ArgoCD** with **zero-downtime deployments**.
– Architected and automated a full-stack CI/CD pipeline with **Jenkins + SonarQube**, enabling quality-gated releases and seamless GitHub integrations.
– Implemented end-to-end observability using **Prometheus, Grafana, and OpenTelemetry**, ensuring **99.9% uptime** and real-time monitoring insights.

•SDE Intern *Jan 2025 -– Oct 2025*

ISRO Bangalore

– **Led a team of 10** to enhance the **Bhuvan website**, ISRO's national geospatial platform, by developing a **multilingual map translation system (English → Kannada)** using **PostGIS, vector tiles, and PostgreSQL**.
– Containerized all services with **Docker** and deployed on servers, building **dynamic APIs for machine translation** with **Redis caching** for **fast, accurate translations**.
– Optimized system performance and data retrieval, enabling **scalable multilingual map services** and strengthening ISRO's geospatial technology offerings.

•Mentor *Jan 2025 — April 2025*

Polytechnic Internship Mentorship Remote

– Mentored **70+ students** in full-stack **MERN development**, combining conceptual knowledge with practical coding and advanced industry-standard practices.
– Led student projects end-to-end, training them in **scalable deployment strategies, automation, AI-assisted development, and monitoring/debugging techniques**.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Go, Python, JavaScript, TypeScript, C/C++
DevOps Tools: Docker, Kubernetes, Jenkins, GitOps, Helm, SonarQube, Trivy, DevSecOps, HashiCorp Vault
Cloud & Infrastructure: AWS, GCP, Terraform, Ansible, Nginx , Linux (Ubuntu, CentOS), Bash/Shell scripting
Databases & Caching: MongoDB, Redis, RDS, DynamoDB, S3
Observability Tools: Prometheus, Grafana, Loki, EFK stack , OpenTelemetry

PERSONAL PROJECTS

–**MAHE Research – Dermoscopy Image Classification using Self-Supervised Swin Transformer**

*Swin Transformer, PyTorch, U-Net, Self-Supervised Learning, Kubernetes – **GitHub***

∗ Developed a **self-supervised Swin Transformer** pipeline for **malignant vs. benign dermoscopy image classification**, improving melanoma detection accuracy and robustness.
∗ Trained with **contrastive pretext tasks** and deployed on **Kubernetes** for scalable real-time inference, achieving strong **AUC and interpretability via attention heatmaps**.

–**Three-Tier Architecture on AWS**

*Kubernetes, Jenkins, ArgoCD, AWS EKS, SonarQube, Trivy, Prometheus, Grafana – **GitHub***

∗ Deployed a **3-tier full-stack app** on AWS EKS with **CI/CD (Jenkins + ArgoCD)**, achieving **90% uptime** and automated continuous deployments.
∗ Implemented **DevSecOps** (SonarQube, Trivy) and **monitoring** (Prometheus + Grafana), delivering **secure, scalable, and reliable operations** with enhanced user experience.

EDUCATION

–**Dayananda Sagar College of Engineering**

B.E in Artificial Intelligence and Machine Learning CGPA: 9.83

ACHIEVEMENTS

–Secured **Top 6/244 teams** in **Argonyx RV Hackathon**, with project chosen for **patenting**.
–Completed **NPTEL certification** in *Cloud Computing and Distributed Systems* from **IIT Kanpur**.
–**Google Cloud Certified:** Cloud Digital Leader – *Credly*.
–Built **10+ projects** in DevOps and DevSecOps, including CI/CD, container orchestration, cloud automation, and security.