Harisudhan Veerasamy

Galway, Ireland

+353 899485971 | harisudhan016@gmail.com | [LinkedIn](#)

Professional Summary

Certified Cloud and DevOps Engineer with expertise in **automation**, **container orchestration**, and **AI/MLOps**, combining hands-on experience in **CI/CD**, **infrastructure as code**, and **real-time AI deployment**. Proficient in building **secure, scalable pipelines**, automating infrastructure using **Terraform**, **Jenkins**, and **Ansible**, and managing hybrid environments across **AWS** and **Azure**. Strong foundation in **Kubernetes**, **Linux**, **Bash**, and **Python**, with hands-on experience fine-tuning **LLMs** for **healthcare applications** and developing **AI-driven solutions** for **environmental safety**. Passionate about bridging **Cloud, DevOps and AI** to deliver efficient, reliable, and ethical cloud-native systems.

Technical Skills

Cloud Platforms: AWS, Azure, GCP

Infrastructure & Automation: Terraform, Ansible, CloudFormation, AWS CDK

CI/CD & DevOps: Jenkins, GitHub Actions, Argo CD, GitOps

Containers & Orchestration: Docker, Kubernetes (EKS)

AI/ML & MLOps: T5, LoRA, PEFT, TensorFlow, Keras, Hugging Face, Gradio, ML Model Deployment

Monitoring & Observability: Prometheus, Grafana, Datadog

Security & Governance: IAM, Trivy, SonarQube, RBAC, GDPR Compliance

Scripting & Languages: Python, Shell Scripting

Other Tools: Git, GitHub, IoT Integration, Drone Data Processing

Professional Experience

Cloud DevOps Engineer

Avaya, Galway, Ireland — Jan 2023 – Aug 2024

- Designed and maintained **CI/CD pipelines** using Jenkins and GitHub Actions, reducing deployment time by **50%**.
- Automated infrastructure provisioning on AWS using **Terraform**, decreasing manual setup by **70%**.
- Developed monitoring and log analysis scripts in **Python** and **Bash**, improving operational efficiency by **50%**.
- Deployed and managed **Kubernetes clusters** for high-availability workloads, ensuring **99.9% uptime**.
- Implemented **configuration management** across environments with Ansible, achieving near 100% consistency.
- Collaborated with cross-functional teams to improve **incident response time by 40%**.

Junior Cloud Engineer

Neeyamo, India — Nov 2020 – Aug 2021

- Supported CI/CD implementation for internal apps using Jenkins and AWS.
- Assisted in provisioning tasks and Docker containerization.
- Engaged in incident management, RCA, and change request process.

Key Projects

Fine-Tuned AI LLM for Clinical Note Simplification – Real-Time Application Using T5, LoRA & PEFT(Demo Link)

- Fine-tuned a T5 model using LoRA and PEFT on 1,500+ clinical text samples to simplify medical jargon.
- Engineered tone-aware prompts and deployed with Gradio on Hugging Face Spaces.
- Emphasized ethical AI communication in healthcare.
- **Tools:** Hugging Face, Gradio, LoRA, PEFT, Python, Colab

AI-Based Forest Fire Detection Using Deep Learning and Cloud Computing (GitHub Link)

- Achieved 96%+ fire/smoke detection accuracy using CNN on drone imagery.
- Integrated real-time alerts and cloud-hosted image processing via Firebase.
- Designed hybrid cloud infrastructure for scalable response.
- **Tools:** TensorFlow, Keras, CNN, Firebase, IoT, Python

GDPR-Compliant End to End DevSecOps CI/CD Pipeline on AWS(Project Post Link)

- Automated infrastructure with Terraform; built CI pipelines with Jenkins.
- Integrated Trivy, SonarQube, and Argo CD for security and GitOps delivery.
- **Tools:** AWS, Terraform, Jenkins, Argo CD, Trivy, SonarQube

Automated FSx for NetApp ONTAP Provisioning on AWS(GitHub Link)

- Created Ansible playbooks for dynamic provisioning of FSx and SVMs.
- Enabled persistent NFS access for Linux EC2 environments.
- **Tools:** Ansible, AWS FSx, ONTAP, NFS

Certifications

- Certified Kubernetes Administrator (CKA) – Dec 2024
- AWS Solutions Architect Associate – Jul 2022
- Microsoft Azure Fundamentals (AZ-900) – Sep 2023
- Microsoft Azure AI Fundamentals (AI-900) – Aug 2024
- Certified Kubernetes Security Specialist (CKS) – *Expected July 2025(In Progress)*

Education

Postgraduate Diploma in Cloud Computing
Atlantic Technological University, Ireland — 2021–2022

BSc in Computer Science
Thiagarajar College, India — 2017–2020