

Harsh Mishra

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TECHNICAL SKILLS

Programming Languages: Python, C, Go(Basic)

CI/CD Tools: Github Actions, Jenkins X

Cloud Native Tools: Docker, Kubernetes, Terraform, Ansible, Circle CI

Cloud Services: Google Cloud Platform:- (GCE, Cloud Run) Amazon Web Services:- (EKS, EC2, VPC, IAM, KMS), Azure:- (Azure Container Apps, Azure VNet, Azure SQL, Azure App Services)

Testing Tools: Robot Framework

Databases: PostgreSQL, MySQL

Web Development Frameworks: Flask, Django

Version Control Systems and Tools: Git, Github

WORK EXPERIENCE

Azure DevOps (Freelance)

Part time, Remote

ArieInfotech Pvt. Ltd.

February 2023 - Present

- Set up secure P2S VPN-based development infrastructure for Remote Teams to collaborate on projects in PHI sector in US to ensure Government Compliance.
- Set up Greenfield development for Azure Functions and Azure App Services based Application.
- Set up Elastic CrossDB Query for vertically partitioned Azure SQL Databases.

Contributor - Platform Developer

Remote

Runwhen Inc., San Francisco, CA

September 2023 - January 2023

- Enhanced [RunWhen.com](https://runwhen.com)'s AI platform with custom plugins for Kubernetes cluster troubleshooting, streamlining complex tech problem resolution and reducing user training time. Added following SLIs(Service Level Indicators) to the platform via plugins:
 - * QoS(Quality of Service) of Jenkins X Pipelines
 - * Postgres backend health (Blocking Backends Inspection)
 - * Performance of Postgres queries (Blocking Query and SlowQuery Inspection)

AWS DevOps Freelancer

Remote

Tapan Halani, Independent Contractor, Gujarat, IN

April 2023 - August 2023

- Delivered innovative & cost-effective DevOps solutions for clients.
 - * Enhanced application deployment on AWS EKS with custom Helm Charts for error page management, addressing a limitation of the ALB Ingress controller.
 - * Reduced AWS ALB costs by 50% in development & staging environments.
 - * Accelerated Docker build times in Github Actions CI/CD pipeline by 78.5%, using Docker Build Caching.

PROJECTS

• [IaC and GitOps for Vanilla Kubernetes Clusters on AWS EC2](#)

Developed an IaC based GitOps Pipeline for Infrastructure Engineers to quickly deploy kubeadm based clusters quickly on Amazon EC2 using Terraform, Ansible and Github Actions. Also, it follows the least privilege principle to secure the pipeline.

• [Github Actions Plugin: Helm on EKS with AWS CLI v2](#)

Pioneered a secure keyless sign-on solution for AWS EKS clusters within Github Actions CI/CD pipelines. Addressed the lack of support for AWS CLI v2 in existing actions, enhancing security and future-proofing deployments.

• [Kubernetes Microservices Project: Video 2 MP3 Conversion](#)

Designed and implemented a scalable video-to-MP3 conversion application using microservices architecture on Kubernetes. Utilized API Gateway, RabbitMQ for asynchronous processing, MongoDB for data storage, and separate Auth/Notification services for a robust and modular solution

• [In Memory Filesystem for Linux/Unix Based Operating Systems](#)

A FUSE (FileSystem in User Space) based filesystem written using C and FUSE library written for Linux/Unix based Operating Systems.

EXTRACURRICULARS

- **Mentee - LFX Mentorship** @ Linux Foundation - Jan 2023 - August 2023
- **Backend and DevOps Volunteer** in Nibble Computer Society, JSSATE Noida - Jan 2022 - Present
- **Wolfram Award: - RUHacks 2022 Hackathon** Organised by Major League Hacking and Ryerson University, Toronto - May 2022

EDUCATION

JSS Academy of Technical Education

B.Tech and Computer Science and Engineering

Noida, UP, India

Nov 2021 - Current