HARSH MISHRA

Noida, UP · hmisraji
07@gmail.com · +91-8383865784 · https://github.com/harsh
098

SKILLS

Programming Languages: Python, Go, C

Cloud Providers: AWS

Containers: Docker, Podman, Buildah
Orchestration: Kubernetes, AWS EKS
IaC Technologies: Helm Terraform

IaC Technologies: Helm, Terraform CI/CD: Github Actions

Frameworks and Web Technologies: Django, Flask, Microservices, Message Queues

Automation: Python, Shell Scripting (Bash), Selenium, Web Scraping

Systems Administration: Linux

Systems Programming: Linux Kernel Modules, Kernel Debugging, Fuzzing

Databases: MySQL, PostgreSQL

Interpersonal Skills: Public Speaking, Attention Economy,

Online Content Creation (Blogging, Youtube Talks...)

EXPERIENCE AND VOLUNTEERING

Freelance DevOps and Cloud Architect

April, 2023 - Present

Client: Tapan Halani, Independent DevOps and Cloud Consutlant

Contact: +91 74050 98668

LinkedIn: https://www.linkedin.com/in/tapan-halani-61b46a38/

- Established a robust CI/CD pipeline.
- Optimised existing GitOps workflows.
 - Implemented Build Caching for Docker Builds on GitHub Actions, resulting in a 50% reduction in build times.
 - Enhanced security and ease of implementation by implementing Keyless AWS sign-on in the GitHub Actions workflow.
 - Developed custom GitHub Actions for seamless EKS deployment.
- Optimized the cloud-based network stack on AWS EKS.
 - Reduced costs by optimizing the provisioning of AWS Load Balancer Instances.
 - Streamlined deployments by optimizing Helm Charts.

Linux Kernel Mentorship Program - The Linux Foundation

Linux Kernel Bug Fixing Spring 2023

Mentee March, 2023 - Present

• Working on the Linux Kernel release 6.4

Data on Kubernetes Community

DevRel / Community Management Intern

Jan, 2023 - March, 2023

- Simplified the onboarding process for new Kubernetes community members by providing resources and assistance on Slack.
- Presented a talk titled "Understanding Messaging in Kubernetes: Why it Matters?" at "DoK Explorers' Day."
- Link Here
- Explored Operators in Kubernetes.
- Explored Message Queues in Kubernetes.

Random Tinkering - My Personal Blog

Technical Blogger

- Authored blog articles on Kubernetes and other Cloud Native Technologies while sharing my learning journey.
- Aim to foster knowledge sharing and make these technologies more accessible to new learners.
- https://randomtinkering.hashnode.dev/

Nibble Computer Society - JSSATE, Noida

Backend and DevOps Volunteer

May, 2022 - Present

- Developed Backends for Internal Projects of the Computer Science and Engineering Department
- Assisted in project deployments.
- Currently maintaining the following live projects:
 - codepad.hackncs.in/
 - * Maintained a Django backend and deployed the application using Docker and Portainer
 - * Manage a Traffic of 200-300 users/hr daily.
 - techtrek.hackncs.in/
 - * Annual Quizzing event: managed a traffic of 2000 users for 2 days.
 - * Utilized Docker Compose to set up a Docker environment for deploying the web application.
 - * Implemented NGINX as a reverse proxy to enhance performance and security.
 - * Addressed security vulnerabilities to ensure user safety.

PROJECTS

Microservices Project: Video 2 MP3 Kubernetes, Docker, Flask, RabbitMQ, MySQL, MongoDB, Python https://github.com/harsh098/microservice-deploy

Developed Microservices using Flask, RabbitMQ and Deployed them using Kubernetes and Docker. Added Reverse Proxy and Load Balancing using Kubernetes Ingress

SIMF (Simple In Memory Filesystem) C, Fuse Library, Linux

https://github.com/harsh098/simple-in-memory-filesystem

A FUSE (FileSystem in User Space) based filesystem written using C and FUSE library

QuizAPI with Firebase Integration DjangoREST, Fireebase

https://github.com/harsh098/quiz-REST-API-with-firebase

An API that authenticates and authorizes users using Firebase and serves questions. The Django Admin Panel was customized to allow easy creation of quizzes.

Social Book Django

https://github.com/harsh098/simple-in-memory-file system

An Instagram-like social media website with Login/SignUp, Follow/Unfollow, Post feeds, User Search, Profiles, User recommendation, and Dashboard.

Win32Spy Python, SMTP

https://github.com/harsh098/Win32Spy

A Windows based simple multithreaded and a multiprocessing enabled spyware written as a hobby project . It consists of a keylogger, audio spy , screenshot grabber, system reconnaissance and a clipboard spy

EDUCATION

JSS Academy of Technical Education

Noida, UP

B.Tech Computer Science and Engineering GPA: 9.2

Nov, 2021 - Present

AWARDS

Wolfram Award: - RUHacks 2022 Hackathon Major League Hacking and Ryerson University, Toronto Organized by MLH(Major League Hacking) and Ryerson University, Toronto. Our Team's project (Organs4Health)was selected as Top-10 projects. We built a Discord Bot that fetched organ data from a database depending on organ availability for needy donees.

May 2022