Swayam Yadav

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Professional Summary

Second-year Computer Science student specializing in backend systems, DevOps, and cloud infrastructure. Experience deploying full-stack applications using Docker, Docker Compose, and GCP VMs. Skilled in designing scalable service architectures, managing multi-container setups, and automating deployments. Currently developing a DevOps-oriented tool to streamline GitHub-based cloud deployments.

Education

Maharshi Dayanand University (MDU), Rohtak, Haryana, India
B.Tech in Computer Science and Engineering (CSE) | 2023 – 2027

Technical Skills

Programming Language: Python (Proficient)
Frameworks & Tools: FastAPI (Proficient), Docker (Proficient), Docker Compose (Competent), NGINX (Familiar), Locust (Familiar)
Databases & Caching: PostgreSQL (Familiar), Redis (Competent)
Cloud & Deployment: Google Cloud Platform (Competent), CI/CD (GitHub Actions) (Familiar)
Version Control: Git (Proficient)

Projects

Forgelink – Cloud-deployed URL Shortening Platform
- Designed and deployed a full-stack URL shortener with multi-container architecture on **GCP** using **Docker** Compose.
- Included **FastAPI** for API logic, **PostgreSQL** for persistent storage, **Redis** for caching, and **NGINX** for HTTPS routing.
- Integrated HTTPS via **Certbot** and DuckDNS Dynamic DNS;
- Added a custom endpoint to simulate internal **DDoS** attacks; used **Locust** for performance testing.
- Public URL: https://forgelink.netlify.app

OneClick Cloud Deployer – GitHub-to-**GCP** Deployment Tool (**WIP**)
- Developing a tool to automate containerized deployments from GitHub repos using Docker Compose.
- Designed FastAPI endpoints to trigger deployments and generate public access links.
- Aims to simplify cloud deployment for developers via one-click workflows.

Learning Goals

- Kubernetes – Orchestration and cluster basics
- Terraform – Infrastructure as code for provisioning
- Linux Internals – CLI proficiency and system debugging
- Prometheus/Grafana – Monitoring and observability stack
- Advanced CI/CD – Automating test and deploy pipelines