

RAGHAV TIWARI

DevOps Engineer

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SUMMARY

An aspiring DevOps Engineer with a passion for automating operational processes and implementing solutions in continuous integration and continuous deployment (CI/CD). I have gained hands-on experience in DevOps and Cloud-Computing, working with various modern technologies that power today's SDLC.

Projects

1. AI Medical Report Analyzer Chatbot

Technologies: Python, Streamlit, LangChain, Gemini API, Chroma, PyMuPDF

Developed a chatbot that analyzes uploaded medical reports (PDF/TXT) using Google Gemini LLM via LangChain. Extracted and vectorized content with PyMuPDF and Chroma. Enabled real-time Q&A with document context and built an interactive frontend using Streamlit with error handling and chat history features.

2. Google Search Fetcher with NLP Enhancement (Personal Project)

Technologies: Python, Requests, BeautifulSoup, NLP (Optional)

Implemented a search tool to fetch and summarize Google search results programmatically. Designed to help users get summarized data from top results, optionally integrating language models or keyword extraction for enhanced accuracy.

3. Menu-Based Dockerized Python Utility System

Technologies: Python, Docker, Bash, Jenkins (optional)

Built a menu-based CLI tool in Python for automating system-level tasks such as launching containers, running commands locally/remotely, and managing files. Deployed the app in Docker for portability and tested in both local and CI environments. Structured with modular functions and error handling.

4. Flask App CI/CD Pipeline using Jenkins & Docker

Technologies: Flask, Jenkins, Docker, GitHub, Docker Hub

Developed a fully automated CI/CD pipeline for a Flask app using Jenkins and Docker. Enabled GitHub webhook integration to auto-trigger builds. Pushed Docker images to Docker Hub and deployed containers with each new commit, ensuring fast and versioned application delivery.

5. DuckDuckGo Web Search Interface

Technologies: Python, Gradio, BeautifulSoup, Requests

Created a custom search engine UI using Gradio that fetches real-time search results from DuckDuckGo. Parsed and displayed links using BeautifulSoup and HTML scraping. Built a responsive and easy-to-use interface for user-driven web information retrieval.

Skills

- Python
- Docker
- AWS
- Git
- GitHub
- Networking
- Kubernetes
- Jenkins
- MYSQL
- Ansible
- Terraform

Experience

2023 - 2024

ARTH 4.0 Learner (Internship)

LinuxWorld Informatics Pvt Ltd

ARTH - The School of Technologies · Internship

- Gained hands-on experience in DevOps tools like Docker, Ansible, and Kubernetes.
- Created backend REST APIs using Spring Boot and Python Flask.
- Built automation scripts and collaborated with peers to simulate real-world scenarios.

2025

DevOps & Cloud Intern

LinuxWorld Informatics Pvt Ltd

Summer Internship

- Worked on live AWS infrastructure projects using EC2, S3, and IAM.
- Implemented Terraform-based infrastructure provisioning.
- Practiced CI/CD pipeline creation with Jenkins and GitHub integration.

Education

2022 - 2025

Bachelor of Computer Applications

Renaissance University

Computer Science Engineering