

Sumit Ranjan Jha

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SUMMARY

Aspiring DevOps Engineer with strong foundation in containerization, automation, and cloud technologies. Hands-on experience with Docker, Linux systems, and CI/CD practices. Quick learner with technical background bridging Mechanical and Computer Science disciplines. Passionate about optimizing deployment workflows, automating infrastructure, and implementing DevOps best practices to enhance system reliability and scalability.

PROJECTS

- ★ **MINI HEROKU — A Containerized Application Deployment System** | *Docker, Python, Flask, REST API, Container Orchestration, CI/CD* [GitHub](#)
- Developed a lightweight PaaS (Platform as a Service) inspired by Heroku for automated containerized application deployment
 - Implemented REST API endpoints for application lifecycle management: deploy, start, stop, restart, and delete operations
 - Built custom container orchestration engine using Docker Python SDK to manage application containers dynamically
 - Designed automatic port allocation system with conflict detection and container health monitoring
 - Created Git integration for source-code-to-deployment workflow with automatic Dockerfile generation
 - Implemented application state persistence, logging system, and real-time deployment status tracking
 - Added user authentication, rate limiting, and resource quota management for multi-tenant support
 - Developed CLI tool for seamless interaction with the platform and automated deployment pipelines

SKILLS

Programming Languages: Python, JavaScript, HTML/CSS, SQL, Bash

Web Development: React, Django, REST APIs, HTTP/HTTPS, Responsive Design

Databases: MySQL, PostgreSQL, SQLite, Basic Database Design

Version Control: Git, GitHub, Basic Git Workflows

Containerization: Docker, Docker Compose, Basic Container Management

Web Servers: Nginx, Apache, Basic Server Configuration

Operating Systems: Linux (Ubuntu, Debian), Windows, Command Line/Terminal

Tools & Platforms: VS Code, LaTeX, Basic CI/CD Concepts

Soft Skills: Problem Solving, Documentation, Team Collaboration, Continuous Learning

EDUCATION

Maharshi Dayanand University

2023 - 2026

Bachelor of Technology in Computer Science

CGPA: 8.2/10

- **Academic Focus:** Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Software Engineering, Cloud Computing, DevOps Practices, Linux System Administration

Sant Longowal Institute of Engineering and Technology

2020 - 2023

Diploma in Mechanical Engineering

CGPA: 8.0/10

- **Core Subjects:** Engineering Mechanics, Thermodynamics, Manufacturing Processes, CAD/CAM, Industrial Automation