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

Containerized Web Application with Docker & Nginx | *Docker, Docker Compose, Nginx, HTML/CSS*   [GitHub](#)

- Designed and deployed a fully containerized web application using Docker and Nginx web server
- Authored comprehensive Dockerfile for custom image creation and docker-compose.yml for multi-container orchestration
- Implemented container networking with port mapping (8080:80) enabling seamless local deployment
- Built responsive, modern frontend interface demonstrating full-stack DevOps workflow
- Documented complete setup process including installation guides and troubleshooting for reproducible deployments
- Demonstrated proficiency in container lifecycle management and DevOps automation principles

React + Django Demo App | *React, Django, Django REST Framework, Docker, Docker Compose*
[GitHub](#)

- Implemented a full-stack demo with a Django REST API backend and React frontend for a seamless developer experience
- Built REST endpoints using Django REST Framework to expose CRUD operations and authentication flows
- Created a single-page React app with client-side routing, state management, and responsive UI components
- Containerized the application with Docker and orchestrated services via docker-compose for one-command local setup
- Added README with run/test instructions to simplify onboarding and demonstration of CI/CD ready practices
- Ideal for showcasing integration between modern frontend tooling and Python backend services

Skills

Operating Systems: Linux (Ubuntu, CentOS, Debian), Windows Server, Shell/Bash Scripting
Cloud Platforms: AWS (EC2, S3, Lambda, CloudWatch, IAM), Microsoft Azure, Google Cloud Platform
Containerization & Orchestration: Docker, Docker Compose, Kubernetes, Container Registries
CI/CD & Automation: Jenkins, GitHub Actions, GitLab CI/CD, Travis CI, Automated Testing
Infrastructure as Code: Terraform, Ansible, CloudFormation, Configuration Management
Version Control: Git, GitHub, GitLab, Bitbucket, Git Workflows
Web Servers & Networking: Nginx, Apache, Load Balancing, DNS, HTTP/HTTPS
Monitoring & Logging: Prometheus, Grafana, ELK Stack, CloudWatch, Log Aggregation
Scripting & Programming: Python, Bash, PowerShell, JavaScript, SQL
Databases: MySQL, PostgreSQL, MongoDB, Redis, Database Backup & Recovery

DevOps Practices: Agile/Scrum, Microservices Architecture, System Design, Troubleshooting, Documentation

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