



VIKASH KUMAR

☎ 8651246817 ✉ vkgupta993468@gmail.com

in www.linkedin.com/in/hello-vikash github.com/profile

Education

IIIT Naya Raipur

B.Tech in Electronics and Communication engineering

84.6/100

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Relevant CourseWork

- C Programming Language
- Database Management System
- Graph Algorithm via CP.
- Data Structure and algorithm
- Telecommunication and Switching Network
- Operating System
- Optimization Algorithm via CP
- OOPS in JAVA

Experience & Projects

CI/CD pipeline for Java Application to deploy on k8s cluster | [GitHub](#) | *Jenkins, GCP, Docker, Kubernetes*

- Integration of **Jenkins & Sonarqube** for static code analysis, Analyze over 1000 lines of code making sure every facet of the application meets the highest standards.
- Enhanced image management and deployment processes by implementing private registry on Nexus, resulting in improved reliability and reduced deployment time.
- Dockerizing and Identifying the misconfiguration in Helm Chart using datree through automated checks on various configuration parameters.
- Writing script/JenkinsFile to automate the whole deployment process (fetching the code from github to deploy the code in main branch).
- Deployment of the application on **Kubernetes** cluster using the helm chart which help us to manage and scale effortlessly with support for deploying across 3 different Kubernetes namespaces.
- Configuring mail server and enabling pull request trigger reduces turnaround time for code integration.

Deploy Netflix Clone on Cloud using Jenkins (DevSecOps): | [GitHub](#) | *Jenkins, AWS, Docker, Kubernetes, sonarqube*

- Constructing Docker images in Jenkins and subsequently pushing them to the private registry Docker Hub.
- Scanning images with **Trivy** ensures vulnerabilities are identified and addressed, reducing the attack surface.
- Launching the Netflix clone app on Kubernetes, guaranteeing optimal performance even during traffic spikes of up to 5000 concurrent users.
- Monitoring with **Prometheus, Grafana** Track over 50 key metrics, including response times, error rates, and resource utilization.
- **Email Integration With Jenkins** and Plugin setup reduce communication latency, ensuring everyone stays in the loop on every build and deployment.

CI/CD pipeline for Django Application using AWS, jenkins | [GitHub](#) | *Jenkins, AWS, linux, Docker, Docker Compose.*

- Launching the Django application on AWS EC2 Server.
- Developed Docker images in Jenkins and pushed to private registry Docker Hub for seamless deployment across development and production environments.
- Integrating with Github and building pipeline using Jenkins establish an automated development pipeline using Jenkins.
- Monitoring health and performance of the application with Prometheus and Grafana by Tracking key metrics like response times, error rates, and resource utilization.

Integration of AWS Lambda with API gateway | *AWS, Python, Postman*

- Building and testing of python lambda function on AWS lambda.
- Integrate with the API Gateway.
- Finally Test with the postman.

Technical Skills

Languages : C, C++, JavaScript, Solidity, SQL, Bash.

Development: Node.js, express.js, HardHat

DevOps Tools: Docker, Jenkins, Ansible, Github, AWS, Prometheus, Grafana, ThirdWeb, Ganache, Alchemy

Platform/Operating System: Windows, Linux

Responsibility & Others

- IEEE Certification of "**English For Technical professionals**".
- Solved **300+** **DSA** problems on leetcode, gfg and other coding platforms in **C++** language.
- Mess representative/Secretary of our university hostel(Managing Mess of strength of total 400 students).