VIKASH KUMAR

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Education

IIIT Naya Raipur   **84.6/100**

B.Tech in Electronics and Communication engineering   *Dec. 2020 – jul 2024*

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

ChainFund-Decentralized-Crowdfunding-on-the-Blockchain | GitHub | *Solidity, ThirdWeb, typeScript, Etherium*
- Developed a decentralized Web3 crowdfunding application using smart contracts and blockchain technology.
- Implemented crowdfunding features including tier management, campaign status tracking, and refund functions for failed campaigns.
- Utilized Remix IDE for smart contract development and thirdweb for deploying and interacting with contracts.
- Deployed the smart contracts on the Etherium network.
- Created a factory contract to efficiently deploy multiple crowdfunding campaigns on the blockchain.
- Built a user-friendly front-end Web3 application to allow seamless interaction with deployed crowdfunding contracts.

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.
Developement: 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).