Nitin Yadav

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Education

Parul Institute Of Technology   **2022 – 2026**
Bachelor of Technology in Computer Science and Engineering   *CGPA: 7.85*

Projects

DecideNow / *Infrastructrure as Code (Terrafrom), AWS, Ansible, NoSQL*   ⌂ ▶
- Collaborated in a team to develop DecideNow, a real-time group decision-making platform utilizing TypeScript, NestJS, Redis, ReactJS, Vite, and Socket.io. Led the DevOps efforts to ensure seamless deployment and operations of the application. Implemented instant polling rooms, nominations, votes, and real-time result sharing with weighted preferences.
- Implemented a CI/CD pipeline using Jenkins and GitHub Actions to automate the build, test, and deployment processes.
- Architected the infrastructure on AWS, utilizing services like EC2, S3, and CloudFront for scalable and reliable deployment.
- Utilized Docker for containerization and Kubernetes for container orchestration to ensure consistent deployment across environments.
- Collaborated with development teams to optimize application performance and resource utilization.
- Conducted security assessments and implemented best practices to protect user data and prevent unauthorized access.

ResilientOps / *AWS, Azure, Terraform, Ansible*   ⌂ ▶
- Designed and implemented ResilientOps, a disaster recovery solution for critical applications.
- Achieved near-zero downtime with automated failover and failback procedures.
- Tested and validated disaster recovery plans through simulated exercises.
- Implemented infrastructure as code with Terraform and Ansible for consistent and reliable deployments.

CloudCostOptimize - Cost Optimization Strategy / *AWS, Azure, Google Cloud, Terraform*   ⌂ ▶
- Developed CloudCostOptimize to optimize cloud infrastructure costs while maintaining performance.
- Reduced cloud expenses by 10% through rightsizing and reserved instance utilization.
- Implemented budgeting and forecasting mechanisms for better financial planning.
- Leveraged Terraform to automate cost-saving strategies across multi-cloud environments.

AgileDeploy – Automated Deployment Pipeline / *Jenkins, Docker, Kubernetes, Terraform, AWS* ⌂ ▶
- Implemented AgileDeploy, an automated deployment pipeline, streamlining the release process for web applications.
- Ensured high availability and scalability using Kubernetes orchestration.
- Integrated Terraform for infrastructure provisioning, enabling consistent environments across deployments.

Observablity360 - Comperhensive Monitoring and Logging / *Prometheus, Grafana, Kubernetes* ⌂ ▶
- Improved system reliability with real-time metrics and alerting using Prometheus and Grafana.
- Centralized logging and log analysis with ELK Stack, facilitating troubleshooting and debugging.
- Implemented service mesh with Istio for enhanced observability and traffic management.

PhishingGuard – Read-Time Phishing Detection and URL Extraction / *Flask, MySQL, Python , Pandas, Sklearn* ⌂ ▶
- Enhanced web security by detecting phishing URLs in real-time through URL expansion and phishing analysis.
- Trained the detection model on a comprehensive dataset to improve accuracy and responsiveness.
- Implemented a user-friendly interface for displaying alerts and URL status.
- This project was part of a hackathon, effectively illustrated by the provided flowchart, showcasing the seamless integration of URL expansion and phishing detection to enhance web security.

Technical Skills

Languages: C++, Python, Java , Go
Technologies/Frameworks: Google Cloud, CI/CD, Shell Scripting, Linux Administration, Kubernetes, Terraform
DataBase: SQL, MySQL, PostgreSQL, NoSQL, MongoDB, Redis
Tools/Platform: Git, Github, Github-Action, Linux, Postman, Github Actions, Docker, Google Cloud, AWS

Achievements

- Secured top 10 position in Hack-a-Miners Hackathon, leading a team of 3 participants.
- Solved over 250 problems on Data Structures and Algorithms across different platforms.
- Obtained Google Cloud Platform (GCP) Cyber Security Certificate, demonstrating proficiency in securing cloud environments and mitigating cyber threats.
- Completed Google Cloud Fundamentals Core Infrastructure certification
- Lead the team of 4 member and successfully completed the project in 36 hour which is Scalable.