Muskan Jadav

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Education

Vellore Institute Of Technology, Bachelor's in Computer Science   June 2022 – June 2026
- CGPA: **8.34**/10

Technical Skills

Languages: C++, Python, SQL

Cloud Computing and DevOps: AWS, CI/CD, Automation, Serverless,Containerization ,Orchestration , Terraform

Technologies/Frameworks/Libraries: HTML, CSS, Linux, Shell Scripting, Git

Design/wireframing/Tools: UI/UX Design ,figma ,Wix studio,

Projects

Image Label Detection using AWS Rekognition   December 2024
- Developed a fully serverless image recognition workflow using AWS S3, Lambda, and Rekognition, automatically triggering analysis whenever a new image is uploaded.
- Extracted labels, objects, and confidence scores from images and stored the processed results as JSON metadata in an organized S3 output structure, ensuring secure access via IAM policies.
- Integrated Amazon SNS to send real-time notifications after processing, enabling a complete end-to-end automated cloud pipeline with monitoring through CloudWatch Logs.

AI-Powered Collaborative IDE   May 2025 – July 2025
- Built a cloud-native collaborative IDE using FastAPI, and Socket.IO, featuring AI chatbot assistance and real-time voice calls with WebRTC.
- Containerized and deployed services using Docker with automated CI/CD pipelines for scalable, secure cloud deployment.
- Implemented cloud-native architecture with monitoring and logging to ensure high availability, fault tolerance, and smooth DevOps workflows.

CI/CD Pipeline Automation Using DevOps Description   June 2025
- Automated the software delivery process using CI/CD pipelines, enabling faster and error-free deployments.
- Techologies used Jenkins, Docker, Kubernetes, Git, AWS.
- Reduced deployment time by 40 (%) improved release reliability.

Self-Healing Cloud-Native System   August 2025
- Tech: Kubernetes, Docker, Terraform, Prometheus, Grafana, AWS, CI/CD
- Built a self-healing cloud infrastructure with Kubernetes, Terraform, and Docker, ensuring zero downtime through automated recovery and scaling.
- Implemented monitoring, alerting, and CI/CD pipelines with Prometheus, Grafana, and GitHub Actions for resilient cloud operations.

Achievements

- Participated and cleared Round 1 (Coding Round) in Amazon HackOn Season 5
- Selected and participated in Level 1: E-Commerce & Tech Quiz of Flipkart GRID 6.0

Leadership & Activities

Gujarati Cultural Club (Event Coordinator)   Oct 2022 - Aug 2023
- Organized 3+ large-scale cultural programs with 200+ attendees each, managing budgets and logistics
- Fostered cross-cultural connections through innovative programming and campus outreach

CRB Foundation(Volunteer work)   Aug 2023
- Been a part of making website for NGO (CRB Foundation) based in Bhopal.

c0c0n Cybersecurity Conference & Hackathon   Oct 2023
- Selected to participate in India's premier cybersecurity conference, engaging with 500+ professionals
- Acquired hands-on knowledge of cutting-edge security frameworks and threat mitigation techniques