

Rakesh Jha

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EDUCATION

Guru Jambheshwar University of Science & Technology (GJUS&T) Hisar, India
Bachelor of Technology in Information Technology 2021 – 2025
Core Coursework: Operating Systems (OS), Database Management Systems (DBMS), Computer Networks (CN), OOP, DSA.
Rajkiya Pratibha Vikas Vidyalaya (RPVV), Lajpat Nagar-1 New Delhi, India
Class 12th Senior Secondary Board Examination **90.4%**
Class 10th Secondary School Examination **91.6%** (*State Rank 22 in Delhi Science Open Merit Test*)

TECHNICAL SKILLS

- **Cloud Platforms:** Amazon Web Services (EKS, ECS, ECR, VPC, EC2, IAM, Route53, S3, Lambda, DynamoDB, API Gateway, SNS, CLI), Linux/Ubuntu Systems Administration.
- **Containerization & Orchestration:** Kubernetes, Docker, Docker Compose, Helm, AWS Load Balancer Controller.
- **Infrastructure as Code & Automation:** Terraform (HCL), Ansible, Python (Boto3), Advanced Bash / Shell Scripting.
- **CI/CD & GitOps:** GitHub Actions, Jenkins (Pipelines-as-Code), ArgoCD, Git.
- **DevSecOps & Observability:** Trivy, Checkov, Prometheus, Grafana, System Telemetry & Observability.

DEVOPS & CLOUD INFRASTRUCTURE PROJECTS

End-to-End DevSecOps 3-Tier Application Pipeline

Technologies: GitHub Actions, Trivy, Checkov, Docker, Kubernetes, Terraform, ArgoCD

- Engineered an automated DevSecOps CI/CD pipeline for a 3-tier microservices application using GitHub Actions, enforcing strict security gates prior to deployment.
- Integrated automated security scanners including Trivy (vulnerability scanning), Checkov (IaC security analysis), and NPM Audit into the release workflow to resolve CVEs early.
- Implemented continuous delivery using ArgoCD (GitOps) to automatically synchronize Kubernetes state files with Git repositories upon successful CI pass.

Production-Grade AWS EKS Microservices Deployment with Ingress

Technologies: AWS EKS, AWS Fargate, Helm, AWS Load Balancer Controller, OIDC / IRSA, Kubernetes

- Provisioned a managed AWS EKS cluster with custom VPC topologies and isolated private subnets, eliminating direct public exposure of compute nodes.
- Configured IAM Roles for Service Accounts (IRSA) via OpenID Connect (OIDC) to grant Kubernetes pods least-privilege access to AWS services without hardcoding credentials.
- Deployed the AWS Load Balancer Controller via Helm to dynamically provision external Application Load Balancers (ALB) and route external traffic to internal pod endpoints.

Automated Multi-Tier Cloud Infrastructure via Terraform

Technologies: Terraform (HCL), AWS VPC, EC2, Application Load Balancer, Security Groups, S3

- Authored modular Terraform (HCL) scripts to automate the provisioning of multi-AZ VPC networks, public/private subnets, and Internet Gateways on AWS.
- Configured an Application Load Balancer (ALB) with dynamic Target Group health checks to distribute web traffic across auto-recovering EC2 compute instances.
- Utilized remote S3 backends with state-locking mechanisms to manage infrastructure state safely across collaborative development workflows.

Automated Serverless AWS Infrastructure Monitor

Technologies: AWS, Python, Bash, GitHub Actions, Vercel

- Built an automated, zero-cost monitoring tool to track AWS resource usage across EC2, S3, Lambda, and IAM.
- Used GitHub Actions to run Bash and AWS CLI scripts every 15 minutes to collect infrastructure data.
- Created a Python AWS Lambda function and API Gateway to store the collected data in DynamoDB for long-term audit.
- Set up Amazon SNS to send automatic email alerts if server usage exceeds safety limits, proactively preventing billing spikes.

LEADERSHIP & CREDENTIALS

- **Speakathon Club Coordinator (GJUS&T):** Led cross-functional student teams organizing technical bootcamps and mock interviews for 200+ engineering candidates.
- **Certifications:** Anthropic Claude 101.