

# Kunal Nachan

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## Summary

Cloud and DevOps enthusiast with hands-on experience in Docker, Kubernetes, Linux and AWS. Eager to contribute to scalable infrastructure and CI/CD automation in a team. Passionate about optimizing deployment pipelines and enhancing system reliability.

## Projects

### 1. NotesCraft – Full-Stack Notes App with DevOps & GitOps Integration

**Stack:** React, Node.js, Docker, Kubernetes, Helm, Jenkins, ArgoCD, Prometheus, Grafana

- Engineered a robust full-stack notes application deployed on **Kubernetes** using modular **Helm charts** and **secure Kubernetes manifests**.
- Designed and implemented **CI pipelines with Jenkins** to **automate Docker image builds** and registry pushes.
- Integrated **ArgoCD** for **GitOps-based** Continuous Deployment with auto-sync to reflect **Git** changes directly into **production**.
- Configured **Prometheus** & **Grafana** for end-to-end **monitoring** with real-time pod and cluster insights.
- Enforced **DevSecOps** practices including **RBAC**, **Kubernetes Secrets**, and Pod Security Policies to maintain a secure deployment posture.

### 2. 3-Tier Web Application Deployment with Terraform & AWS Native Services

**Stack:** Terraform, AWS (VPC, EC2, ALB, RDS, S3, IAM, CloudWatch)

- Provisioned a production-ready **3-tier** architecture using **Terraform**, incorporating modular infrastructure-as-code practices.
- Created a custom **VPC** with **public and private subnets**, ensuring network isolation between the web, application, and **database** layers.
- Deployed **EC2** instances for the web and app tiers, attached to an **Application Load Balancer** (ALB) to distribute incoming traffic.
- Set up Amazon **RDS** (MySQL) in the **private subnet** for secure, managed database hosting with automated backups.
- Integrated **S3** bucket for static content delivery or **backup** storage.
- Enforced **IAM** roles, Security Groups, and **CloudWatch** alarms for fine-grained access control, traffic filtering, and proactive monitoring.

## Skills

**Cloud Platforms:** AWS (EC2, S3, Lambda, VPC, IAM, EKS, ECS, Cloudwatch, Cloud trail etc)

**Containerization & Orchestration:** Docker, Kubernetes (Helm, Kustomize)

**CI/CD & DevOps Tools:** Jenkins, ArgoCD

**Infrastructure as Code (IaC):** Terraform, AWS CloudFormation

**Monitoring & Logging:** Prometheus, Grafana

**Version Control & Collaboration:** Git, GitHub

**Scripting & Programming:** Understanding in Bash, Python and Javascript

**Operating Systems:** Linux (Ubuntu)

**Networking & Security:** Understanding Concepts of TCP/IP, OSI, DNS, Load Balancing, Troubleshooting, VPNs, Firewalls, IAM Policies, AWS Security Groups. (Conceptually)

**Databases:** MySQL, MongoDB, AWS RDS, DynamoDB. (basic knowledge)

## Education

G H Rasoni University

Bachelor Degree (B-Tech) in Computer Science |  
2022- 2025 | CGPA : **9.01** / 10

Y B Polytechnic

Diploma in Computer Science | 2019 - 2022 |  
Percentage: **77** / 100

## Certifications

KodeKloud **Kubernetes** Certification

KodeKloud **Docker** Certification

KodeKloud **Linux** Certification

Mastering **Git & GitHub** Training Program