

Ketan Jain

Software Engineer

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SUMMARY

Software Engineer with background in Cloud and DevOps infrastructure practice, specializing in automated deployments, containerization, and system observability. Experienced in designing and provisioning cloud environments on AWS using Infrastructure as Code tools like Terraform. Proven track record of optimizing deployment cycle times and managing production-style containerized workloads.

EXPERIENCE

Cloud & DevOps Infrastructure & Systems Practice

Freelancer

Jan 2024 – Present

- Designed, provisioned, and maintained scalable cloud infrastructure on AWS.
- Spearheaded the migration of containerized workloads to ECS Fargate using Terraform, reducing deployment cycle times by 40% and eliminating manual configuration drift.

EDUCATION

Acropolis Institute of Technology & Research, Indore · B.Tech · 2022 – 2026

Senior Secondary School · Senior Secondary School · 2022

Higher Secondary School · Higher Secondary School · 2020

SKILLS

Languages and Frameworks: Bash, EJS, HCL, HTML, JavaScript, PromQL, Python, Shell, Shell Scripting, Node.js

Databases: DynamoDB

Tools: ACM, ALB, Alertmanager, Ansible, API Gateway, ArgoCD, Auto Scaling, AWS, AWS Lambda, AWS services, CI/CD pipelines, Cloud Computing, cloud deployments, CloudWatch, containerization, DNS, Docker, Docker Compose, EC2, ECR, ECS Fargate, EKS, Git, GitHub, GitHub Actions, Grafana, Helm, IAM, infrastructure as code, Infrastructure Automation, infrastructure provisioning, Jenkins, kube-prometheus-stack, Kubernetes, Lambda, Linux, Load Balancers, load balancing, monitoring, NAT Gateway, Nginx Ingress, Node Exporter, OIDC Federation, Private Clouds, Prometheus, Prometheus.io, Route53, S3, Security Groups, Subnets, Terraform, version control, VPC, VPCs

PROJECTS

CI/CD Pipeline with AWS ECS Fargate

AWS ECS Fargate, Terraform, Docker, GitHub Actions Architected a production-style automated deployment pipeline that builds secure Docker images on main branch commits, scans for vulnerabilities, pushes to ECR, and triggers zero-downtime rolling deployments.

AWS ECS Fargate, Terraform, Docker, GitHub Actions

GitHub —

Cloud Observability Stack on AWS

Prometheus, Grafana, Alertmanager, EC2, Docker Compose Built a full observability and telemetry system monitoring microservices on AWS EC2 with custom Grafana dashboards, Prometheus time-series metrics, Alertmanager incident routing, and Node Exporter.

Prometheus, Grafana, Alertmanager, EC2, Docker Compose

GitHub —

Serverless URL Shortener on AWS

AWS Lambda, API Gateway, DynamoDB, Python 3.12, Terraform Developed a high-throughput serverless URL shortening service using AWS Lambda, API Gateway HTTP API, and DynamoDB featuring Base62 collision-safe hashing, atomic hit counters, and TTL-based automatic data deletion.

AWS Lambda, API Gateway, DynamoDB, Python 3.12, Terraform

Live API —

Additional projects: Kubernetes Cluster & GitOps Deployment, Production-Grade CI/CD Pipeline, Production-Grade GitOps Platform on EKS, Cloud Observability Stack, Serverless URL Shortener

AWARDS

SIH'23 Qualifier, Kriyeta 3.0 Finalist, Introduction to Machine Learning