

Kartik Kain

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Cloud & DevOps Engineer with **3+ years of total IT experience** and **2+ years of dedicated experience** in **AWS Infrastructure automation** and **CI/CD implementation**. Skilled in **AWS, Terraform, Docker, and Kubernetes** with a proven record of reducing infrastructure costs by **30%** and improving deployment efficiency by **60%**. Strong foundation in **DevSecOps practices, monitoring,** and **scalable** cloud-native architectures.

SKILLS

Cloud Platforms: Amazon Web Services (primary), Google Cloud Platform |

Containerization: Docker, Docker-compose, K8S (EKS) |

Infrastructure as Code: Terraform, CloudFormation, Ansible |

CI/CD & VCS: Jenkins, GitLab CI, Azure DevOps, ArgoCD, Git/GitHub |

Security Tools: IAM, KMS, SonarQube, OWASP, Trivy |

OS & Scripting: Linux, Bash/Shell Scripting, Python (Basic) |

Observability: Prometheus, Grafana, AWS Cloudwatch, ELK Stack |

Methodologies: Agile, Microservices, JIRA, GitOps, DevSecOps |

PROFESSIONAL EXPERIENCE

DevOps Engineer (Analyst) | HCLTech | Noida, Uttar Pradesh, INDIA

July, 2023 – Present

- Architected and deployed secure, cost-optimized **AWS** and **GCP** cloud solutions, reducing infrastructure costs by **30%** and improving system availability by **40%**.
- Automated infrastructure and deployment workflows using IaC (**Terraform, CloudFormation**) and CI/CD pipelines (**Jenkins, Gitlab CI**), cutting manual provisioning by **70%** and deployment time by **60%**.
- Led the **containerization** of workloads with **Docker** and **Kubernetes** for the migration of 5+ enterprise applications, significantly improving system scalability and uptime in a microservices environment.
- Collaborated with security, operations, and other stakeholders to design and implement secure system architectures that align with industry standards and business requirements.

IVR Developer (Analyst) | HCLTech | Noida, Uttar Pradesh, INDIA

July, 2022 – July, 2023

- Developed and implemented modern contact center solutions, integrating IVRs, Outbound Dialers, and Automated Callback systems for diverse enterprise clients.
- Built and maintained RESTful API integrations to support communication between IVR systems and backend databases.
- Collaborated with operations teams to resolve critical application issues, ensuring high availability for voice response systems.

Intern at HCLTech | Noida, Uttar Pradesh, INDIA

December, 2021 – June, 2022

- Trained at HCLtech on the subjects related to being an IT Engineer for 6 months (*2 months virtual training + 4 months On-job training*).
- Completed structured training on **Networking, Databases, Linux, Windows Server, SQL, and Virtualization**.
- Contributed to project deliverables within deadlines as part of the IT engineering team.

KEY PROJECTS EXECUTED

1. **Project: Containerized Microservices Architecture Implementation using NGINX** |

[GitHub Link](#)

Key Achievement:

- Successfully designed and deployed a **multi-service application architecture** using Docker Compose and NGINX reverse proxy.
- Achieved seamless **path-based routing** (/service1, /service2) between **Golang** and **Python** services via **NGINX** in a containerized environment.
- Reduced deployment complexity by enabling **single-command service orchestration** with Docker Compose.
- Ensured service reliability with integrated **Docker health checks**, reducing container-level failures.
- Improved local development efficiency by **80%** through automated build and deployment processes.
- Maintained **100% service availability** across isolated containers using Docker bridge networking.

2. **Project: Automated EKS Cluster Provisioning via Terraform & GitOps** |

[GitHub Link](#)

Key Achievement:

- Provisioned a **fully managed AWS EKS cluster** using **Terraform**, including **VPC**, **subnets**, **IAM** roles, and managed node groups with minimal manual intervention.
- Deployed a production-ready **NGINX application** using **Kubernetes** manifests with **ClusterIP** service type.
- Implemented **ArgoCD GitOps workflow**, enabling declarative application deployment and automated sync with a remote **Git repository**.
- Exposed the **ArgoCD** UI using a **LoadBalancer service** and secured operational access via **port-forward** for local environments.
- Achieved **90% reduction in manual deployment steps** by integrating **infrastructure-as-code** and **Git-based CD pipelines**.
- Demonstrated complete **CI/CD** and operational flow including **health checks and access routing**.

3. **Project: Deployment of MERN Stack Application using DevSecOps capabilities (DevSecOps)** |

[GitHub Link](#)

Key Achievement:

- Designed & Implemented separated end-to-end **CI & CD pipelines** using **Jenkins**, reducing production rollbacks by eliminating manual deployment errors.
- Automated dependency checks using **OWASP**, code quality scans using **SonarQube**, and filesystem scans using **Trivy** within the pipeline.
- Identifying and mitigating **150+ vulnerabilities**, reducing critical code smells by **40%**, and scanning **200+ container images** to ensure secure, compliant, and high-quality code.
- Automated **Docker Image build and deployment** to **Kubernetes Clusters** using **ArgoCD**, enabling seamless application updates from **GitHub** commits using **Webhooks**. This helps us to achieve **100%** consistency between development and production environments.
- Monitored **EKS cluster**, kubernetes components and workloads using **Prometheus** and **Grafana** via **HELM Charts**.
- Integrated **SMTP** role to automate **email notification** for every Build Status via **Jenkins**, improving the incident response time by **70%**.

EDUCATION

Bachelor of Technology – Mechanical & Automation Engineering | Northern India Engineering College | 2014 - 2018 | First Division

Class 12th - (CBSE) | Guru Harkrishan Public School | 2013 - 2014 | First Division

ACHIEVEMENTS & CERTIFICATIONS

- **Cloud & DevOps Expert Program** | Cloudthat Technologies | Nov 2024 - May 2025 |
- **Google Cloud Platform: Associate Cloud Engineer** Certified (validity 06/2023 - 06/2026) |
- **AWS Solution Architect Associate SAA-C03** Course by **Udemy**.
- Secured **2nd position** at Amazon driven **The Elevate Day** competition at HCLTech Office.

[Certificate](#)

[Certificate](#)