

# VINAY V BHAJANTRI

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## Summary

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Entry-level **Cloud & DevOps Engineer** with hands-on experience designing, deploying, and operating AWS-based platforms through real-world projects. Skilled in **CI/CD automation**, container orchestration, Infrastructure as Code, monitoring, and DevSecOps. Demonstrated ability to build scalable and resilient systems using Terraform, Jenkins, Docker, and Kubernetes.

## Technical Skills

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- **Cloud & Containers:** AWS (EKS, ECS, EC2, ALB, IAM, RDS, S3, CloudWatch, SNS), Docker, Kubernetes
- **Infrastructure & CI/CD:** Terraform (state, modules), Jenkins, ArgoCD, GitHub Actions
- **Monitoring & Observability:** Prometheus, Grafana, CloudWatch
- **DevSecOps:** Trivy, Syft, SonarQube, SBOM
- **OS & Networking:** Linux (Ubuntu, Amazon Linux), TCP/IP, DNS, HTTP/HTTPS, VPC fundamentals
- **Programming/Scripting:** Python (automation), Bash, YAML, JSON
- **Version Control:** Git, GitHub

## Professional Experience (Project-Based)

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### FlashScale – Flash Sale E-Commerce Platform

2025

AWS EKS, Terraform, Jenkins, ArgoCD, FastAPI, React, Prometheus, Grafana, Locust

- Architected and deployed a cloud-native e-commerce platform on AWS EKS designed to handle high-traffic scenarios using scalable microservices architecture.
- Built end-to-end **CI/CD pipelines** with Jenkins to build Docker images, push to Amazon ECR, and deploy via **GitOps using ArgoCD**, reducing manual deployment steps by **~80%**.
- Implemented **Blue/Green deployment strategy** on Kubernetes to enable zero-downtime releases and safe version rollbacks.
- Configured **Horizontal Pod Autoscaler (HPA)** to dynamically scale application pods based on CPU and memory utilization, supporting load surges during peak testing.
- Executed **load testing using Locust** and analyzed system behavior through Prometheus and Grafana dashboards to identify performance bottlenecks and scaling limits.

### SeatMatrix – Smart Library Seat Management Platform

React, Docker, AWS ECS Fargate, ALB, CloudFront, ECR, Jenkins, Terraform

2025

- Developed and deployed a real-world seat booking platform enabling real-time seat visibility for students and efficient occupancy management for library owners.
- Designed a secure AWS architecture using VPC with public and private subnets, ALB for inbound traffic, and NAT Gateway for controlled outbound access.
- Implemented end-to-end **CI/CD automation** and **Infrastructure as Code** using Jenkins and Terraform to deploy containerized workloads on ECS Fargate, improving deployment reliability and consistency.

### MediOps – Resilient Healthcare Platform

AWS EKS, RDS PostgreSQL, Terraform, Jenkins, Prometheus, Grafana

2025

- Designed a resilient application architecture on AWS EKS with **zero-downtime deployments** to support continuous service availability.
- Automated infrastructure provisioning and application deployment using Jenkins and Terraform, reducing manual setup effort and configuration errors.
- Designed **cross-region S3 replication** and SNS alerts to improve fault tolerance and disaster recovery readiness.

### EC2 Monitoring and Alerting

AWS EC2, CloudWatch, SNS

2025

- Configured CloudWatch Agent to collect CPU, memory, and disk utilization metrics for EC2 instances.
- Set up CloudWatch alarms and SNS notifications to enable proactive infrastructure monitoring and faster incident response.

## Professional Development

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### UPSC Civil Services Examination Preparation

2022–2025

Prepared for the UPSC Civil Services Examination, requiring consistent long-term preparation, critical analysis of complex subjects, and performance under high competition. This experience developed resilience, focus, and the ability to work systematically toward challenging objectives.

## Education

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### KLE Technological University, Hubballi, Karnataka

2018 – 2022

Bachelor of Engineering in Electrical and Electronics Engineering

## Certifications

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AWS Certified Solutions Architect – Associate (*In Progress*)

Google IT Support Certificate – The Bits and Bytes of Computer Networking

Docker Training – KodeKloud

Fundamentals of DevOps – KodeKloud

Cloud Security on AWS