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# Anurag Gupta

## DevOps Engineer

Portfolio: [anurag-cv.com](https://anurag-cv.com)  
[github.com/anurag19100](https://github.com/anurag19100)  
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DevOps Engineer with 1.5+ years of experience in designing, implementing, and optimizing robust cloud infrastructure and automation solutions at BigBasket. With a strong background in AWS, Kubernetes, Jenkins, Terraform, and programming, I have a proven track record of enhancing system efficiency, reliability and maintainability. I'm passionate about all things cloud infrastructure and automation. Critical thinking DevOps Engineer with extensive understanding of high availability architecture and concepts.

### SKILLS

IAC	Terraform
Orchestration	Kubernetes
Cloud	AWS
OS	Linux, Unix
Observability	EFK, Grafana, Prometheus
Tools & Framework	Jenkins, Docker, Linux, Git, RESTful API
Scripting	Python, Groovy, Bash
Database	MySQL

### TECHNICAL EXPERIENCE

**BigBasket** July 2023 - Present  
*DevOps Engineer I* Bengaluru, India

- Automated numerous manual tasks, resulting in increased operational efficiency and reduced error rates.
- Actively participated in **on-call** rotation, ensuring system availability and rapid resolution of production incidents.
- Contributed to **setup of EKS cluster using Terraform**, including spotinst-managed node groups, RBAC for microservices, and deployment of various devops-managed kubernetes services. Integrated the Terraform code with a centralized MySQL database for RBAC management.
- Designed and implemented an **event-driven autoscaling solution** using CloudWatch KEDA for Kubernetes workloads.
- Executed the migration of **100+ microservices** from EKS v1.24 to v1.30 with **zero downtime**.
- Developed a CLI tool for **self-service access management**, integrating APIs from multiple tools with Slack and Jira notifications, reducing access provisioning time by **90%**.
- Implemented **LLM-powered troubleshooting** solutions like HolmesGPT in the production cluster.
- Upgraded 5+ Jenkins instances** from 2.26x to stable LTS, resolving 20+ plugin and dependency conflicts, ensuring zero downtime.
- Developed a **production-grade Grafana dashboard** for monitoring critical k8s workloads, enhancing org-wide infra visibility.
- Implemented **Auditbeat File Integrity Monitoring** to enhance security compliance and audit readiness
- Automated the creation of AWS resources (S3, ECR, Secrets Manager, SQS) using Python, implementing AWS best practices
- Hands-on experience in setting up secure Virtual Private Cloud environment including VPC, IAM, EC2, Security Groups, Network ACLs, Elastic IPs, Public and Private Subnets, NAT Gateways, improving network reliability by **99.9%**
- Designed and developed Terraform modules to simplify provisioning and managing AWS services.
- Implemented **cost-tracking mechanisms** for AWS and Kubernetes resources, reducing monthly cloud expenditure by **\$20,000**.
- Enhanced deployment processes through **Jenkins IAC**, cutting deployment time by **50%** and increasing frequency by **75%**.
- Performing Real time monitoring, analysis, diagnostics, initial troubleshooting and reporting.

**BigBasket** Jan 2023 - Jun 2023  
*DevOps Intern* Bengaluru, India

- Automated diverse processes using Jenkins, AWS, and Python, reducing manual intervention across 10 key workflows
- Built an AWS S3 file editor on Jenkins UI, decreasing operational errors and manual effort by 80%.
- Built a Slackbot to streamline the approval process using AWS Lambda, reducing manual efforts and boosting efficiency by 60%.
- Automated diverse processes using Jenkins, AWS, and Python, reducing manual intervention by 80%.
- Updated outdated automation processes, taking ownership of logic building and implementation, optimizing operations

### EDUCATION

**International Institute of Information Technology, Naya Raipur**  
*Bachelor of Technology, Computer Science*

Aug 2019 - Jun 2023  
CGPA - 7.7