# Kritika Singh

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## Skills

**Operating Systems:** Linux (RHEL, Ubuntu)
**Scripting & Languages:** Python, Bash, Shell, SQL
**Cloud Platform:** AWS, Azure, GCP
**DevOps Tools:** Jenkins, Git, Docker, Kubernetes, OpenShift
**Monitoring & Logging:** Prometheus, Grafana, Splunk
**Version Control:** Git (GitHub, Perforce)
**Other:** Agile, Scrum

## Work Experience

**DevOps Engineer** - **Synopsys, Bellfast** *(Bangalore)*                       **March 2025 – Sept 2025**

- Automated complex **Perforce workflows** using Python, reducing manual integration errors by **80%** and accelerating delivery across **15+ development teams**.
- Leveraged **AWS services (EC2, S3, IAM, VPC)** for scalable infrastructure provisioning and deployment automation.
- Built and migrated observability pipelines from **Prometheus/Grafana to Splunk**, achieving **40% faster incident detection** and enhancing centralized monitoring.
- Implemented Infrastructure as Code (IaC) and CI/CD pipelines using **Jenkins, Terraform, and Python**, **reducing release cycle time by 25%** and improving deployment reliability.

**DevOps Engineer** - **Shadow Fax** *(Gurugram)*                       **Nov 2024 – March 2025**

- Scaled **containerized logistics systems** using Docker, Kubernetes, and Terraform, boosting system uptime to **99.9%** and improving delivery efficiency across **10+ microservices**.
- Optimized **Azure cloud resources** (compute, storage, and networking), cutting operational costs by **20%** while improving workload performance.
- Automated CI/CD and infrastructure workflows with Jenkins and Python, driving faster, consistent releases.
- Developed scalable backend APIs and integrated real-time metrics into Grafana, **handling 50K+ daily delivery logs.**

**DevOps Intern – Jufmy** *(Delhi)*                       **May 2024 - Oct 2024**

- Worked on **GCP (Google Cloud Platform)** for managing and deploying containerized applications using **Compute Engine, Cloud Storage, and GKE**.
- Implemented and maintained automated build and deployment processes using tools like Jenkins, Git, and Docker.

## Education

**Pranveer Singh Institute of Technology, Kanpur**                       **Dec 2020 - June 2024**

**Bachelor of Technology** in Information Technology                       CGPA:7.4/10

## Project Work

### DevOps Observability Project

- Designed and managed **CI/CD pipelines** using Jenkins, Docker, and GitHub Actions, enabling **fully automated deployments** and reducing release time by **40%**.
- Provisioned and scaled **AWS infrastructure** with Terraform, and deployed a **Prometheus–Grafana monitoring stack**, improving system observability and alert response time by **35%**.

## Achievements

- 4 Star Python Programming on Hackerrank (Recognized for problem-solving and algorithmic skills)
- Solved **300+ problems** on **LeetCode**

## Certifications

- Python Programming: A Practical Approach – E & ICT Academy, IIT Kanpur
- SQL (Udemy), Python Programming (Udemy), Web Development (Udemy)