

# Apoorv Singh

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## Professional Summary

- I am passionate about *automation* and *cloud architecture*, currently working as **Senior DevOps Engineer**
- I have experience of **about 6 years** which includes server infra architecting, automation, security, monitoring, tuning and deployment of latest open-source tools on linux based systems.
- Worked on major cloud providers like **AWS, Azure and GCP** too.
- Ensured SOC2 compliance, implementing security controls and monitoring across cloud infrastructure.
- Collaborated with third-party vendors for annual Penetration Testing (Pentest) of critical systems.
- Monitoring of whole infrastructure with experience of different tools like LM, Zabbix, NewRelic, Prometheus and Grafana
- Implemented IaC practices using Terraform in all environments.
- Setup **Disaster Recovery** with MTD of 45 mins and RPO of 1 hour
- One-click Infra automation with logging, monitoring and deployment services.
- Created Rotating Infra for custom use case.
- Provided round the clock support in '**on-call**' shifts closely monitoring infrastructure
- Efficient at collaborating across roles like managers, architects, developers and testers to plan builds and deployment strategies.
- Worked hand-to-toe with clients which enhanced client handling skills.
- Created **parallel prod-infra** due to GDPR compliance using Terraform, Ansible, Jenkins, Logzlo
- Orchestrated **Frugal Project**, reducing cloud costs by 25% through resource optimization and automation, and savings.
- Worked extensively on increasing overall security of the product and infrastructure.

## Technical Skills

<b>Languages</b>	Bash, Python
<b>Operating Systems</b>	Linux, Windows
<b>Cloud Services</b>	AWS, Microsoft Azure, GCP
<b>Infra Automation tools</b>	Ansible, Terraform, Packer
<b>CI/CD</b>	Jenkins, Gitlab
<b>Monitoring Tools</b>	Zabbix, NewRelic, LogicMonitor, Prometheus Grafana, Elastalert
<b>Databases</b>	MySQL, MongoDB, PostgreSQL
<b>Log Management</b>	ELK Stack, Logzlo, Splunk
<b>Version Control</b>	Github, Bitbucket
<b>Containerization tools</b>	Docker, Kubernetes
<b>WebServers</b>	Apache, Nginx, Tomcat
<b>AWS Services</b>	EC2, RDS, IAM, Opensearch, Elasticache, Redshift, EKS, ECS, Route 53
<b>Other Tools</b>	Kafka, Zookeeper, JIRA, Scout

## Work Experience

Sophos, Gurugram

**Senior Software Engineer - DevOps/SRE** (Mar 2021 – Present)

- Setup timely automated backup for production environments in different regions of different accounts for Disaster Recovery.
- Created complete dev and prod infrastructure template using Terraform, deployable with one click in case of Disaster.
- Created **parallel prod infrastructure** with CI/CD, logging, monitoring with high availability and auto healing capacity.
- Automated the application multi-region prod deployment using Ansible, Jenkins.
- Implemented billing checks using python automation scripts across 30+ AWS accounts.
- Created **rotating infra** for demo environment to show vulnerabilities but increase security.
- Contributed in getting the product **SOC2** certified.
- Migration of whole monitoring of all environments; infrastructure, application, api, endpoint; away from LogicMonitor.
- Been part of on-call setup rotating weekly.
- Collaborated with different teams across different continents to create integrated solutions for multiple projects.
- Setup security practices and implement checks to enforce them.
- Setup automation to totally clean up test accounts of all 3 clouds.
- Created remediations for security alerts on AWS cloud.
- Custom Grafana Dashboards for different services and weekly monitoring.

**Birdeye, Gurgaon**

**Site Reliability Engineer** (Jun 2019 – Mar 2021)

- Improved Monitoring of the whole infrastructure of around 1000+ servers.
- Optimised alerts of the whole environment using **Zabbix, NewRelic, Prometheus, E.L.K.**, and **Grafana**.
- Introduced containerization for setting up new services using **Docker**.
- Cloud Infrastructure as Code using **Terraform, Packer** and **Ansible**.
- Automation of various ad-hoc tasks using **Python, Bash, Ansible**.
- Responsible for setting up **automated monitoring** and **alerting** of new services.
- Contributed to the **Frugal Project** by analysing the **under-utilised** resources and migrating **on-demand EC2** to **spot** and **reserve** instances saving thousands of dollars.

**Oodles, Gurgaon**

**DevOps Engineer** (Jun 2018 – Jun 2019)

- Managed **4+ active projects** concurrently.
- Managed **50+ on-premise** servers and **200+ cloud** servers.
- Responsible for analysing and **designing** the whole **infrastructure** as per the client's requirements.
- Took an initiative in **monitoring** the on-premise servers.
- Responsible for **setup, deployment** and **support** on various projects in multiple environments.
- Deployed multiple microservice architectures on managed containers using **Docker swarm** and **ECS**.
- Responsible for migrating all on-premise servers behind **VPN**.
- Created many **production AWS** infrastructures using **console, Packer, Terraform, Ansible and Jenkins**.
- Supporting high throughput, high availability production environments round the clock.
- Automation of ad-hoc tasks using **Bash, Python**.
- Setup and manage different databases like **MySQL, MongoDB**.

## **Educational Background**

**B.Tech. (Computer Science)**

Lovely Professional University,  
Jalandhar, Punjab

**APOORV SINGH**