ANKUR H. SINGH
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Profile

As a seasoned engineer with **over five years** of professional experience, I've cultivated expertise in **DevOps**, **SRE**, **Mobile App Development** while embracing a **knowledge-sharing mindset** through **mentoring & teaching**. As an advocate of the **SRE** philosophy, I focus on building **reliable** and **resilient systems**, ensuring **optimal performance** and **high availability**. I bring this mindset to every project, emphasizing **proactive monitoring, fault tolerance** & **effective incident response**. In the realm of **DevOps**, I specialize in bridging the gap between **development** & **operations**, streamlining software **delivery pipelines** and fostering a **culture** of **collaboration**. With **hands-on** experience with cutting-edge tools and technologies, I enable **automation, continuous integration** & **deployment**. I am passionate about **empowering** the next generation of **tech professionals** by **guiding aspiring engineers**, sharing my experiences and helping them grow.

Work Experience

Site Reliability Engineer   **Red Hat, Inc.**   **Oct 2022-Present**

- Working for **development**, **maintenance** & **support** for **Red Hat OpenShift** managed service on **Azure** Cloud.
- Provided **insights** on ARO cluster **installation success rates** globally by **enhancing code** for emitting required cluster **metrics**.
- Initiated evaluation of **cost-optimization** opportunities by creating **scripts** to identify top under-utilised clusters and **recommending** appropriate **right-sizing** actions.
- Promoted use of **spot instances** in clusters with non-critical or stateless workloads through **blogs & technical sessions,** contributing to overall cloud cost reduction.
- Contributed to **Security Compliance Verification & Rectification** initiative for **Azure Red Hat Openshift - Resource Provider** in response to attack on **Microsoft** by Midnight Blizzard.
- Created **monitors** to **gauge cluster health & detect anomalies,** enabling **proactive alerting** for instability in customer clusters & internal services.
- Participating in **regular on-call** rotation shifts for **incident response** ensuring maintained **SLAs**.

DevOps SDE - II   **HERE Solutions**   **April 2022-Sep 2022**

- **Maintaining** dev & production **kubernetes clusters** with rolling upgrades, bug fixes and feature releases.
- **Responding to failures** of build & deployment **pipelines** and **further enhancing** them for smooth shipping of deliverables.

Senior DevOps Engineer   **Zycus Infotech Pvt. Ltd**   **July 2019-March 2022**

- Designed **CICD** pipelines, to ensure seamless **deployments**, tailored specific for each product.
- Maintained & reviewed **production configurations** for **40+** multi-tenant web **applications**.
- Implemented **automations to integrate devops tool stack** for end-to-end & hands-free processes.
- Handled frequent stable **releases** of around **90+ products** on staging & production environments.
- Ensured maximum uptime of products to **meet SLAs** by responding to **production incidents.**

Education

BACHELORS OF ENGINEERING - University of Mumbai   **June 2015 - June 2019**
Information Technology
CGPA: **8.20**

Technical Skills

- **Languages**: Python, GoLang, JAVA, Groovy, Bash
- **Tools**: Ansible, GoCD, Jenkins, Jira, Git, Kubernetes, Linux, Docker, Terraform, Gitlab, Nexus, Flyway, Consul, Prometheus, OpenShift
- **Knowledge**: CICD, AWS, Azure, Observability

Achievements and Certifications

- Certified Kubernetes Administrator (**CKA**) certification - **Dec 2023**
- **GitLab** Certified Associate certification - **April 2021**
- **Facilitator/Guest lecturer** for technical seminars & workshops at **Engineering Universities** (since 2019)
- **Won 3 hackathons** at national level **Smart India Hackathon** as **Industrial Mentor**

Projects

- **Zero Downtime CICD Implementation**
  - Led, designed and implemented **workflow** to ensure **upgrades** of products **without downtime** and minimal manual intervention.
  - **Reduced** manual efforts and **CICD timeframe** by **75%** with **quicker** dev-to-production **workflows**.
- **OpenShift Cluster Resource Optimization**
  - **Initiated** one-time effort for **finding underutilised** internal legacy OpenShift **clusters** & analyzing their resource utilization to **recommend** suggestions to **optimize** it as a **cost saving** action.
  - Further, impacts included **deprovisioning**, **scaling down** or implementing auto-scaling, instance **right sizing** & **migration** to HCP of identified underutilised clusters **saving** unused compute **resources** & **cost**.
  - Moreover, provided a **web portal** to **analyse** & provide **suggestions** for **optimised** resource utilization for internal OpenShift clusters based on earlier findings.
- **Metrics Collection & Monitoring Implementation**
  - Implemented **metrics collection** and exportation using OpenTelemetry for services used for authentication, provisioning and maintenance of ARO clusters.
  - Increased **observability** to internal services, thus, further increasing their **reliability** & overall **availability** by **90%** with creating **monitors** for **alerting** on degradation of performance or response of the services.