Anshum Gill

Operations Engineer at Airbnb

⊙ Delhi, India ☎ +919811290033 @ anshumgill@gmail.com 🔗 anshumgill.netlify.app

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Summary

DevOps and Operations Engineer with 5+ years of experience architecting and automating solutions for high-volume, distributed systems at Airbnb. Proven expertise in AWS, Kubernetes, Python, and CI/CD pipelines, with a strong focus on SRE principles to enhance scalability and streamline operations. Eager to apply skills in building and managing robust infrastructure to a challenging role.

Skills

Languages & Scripting
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OOPS, Scripting, API, Pydantic, Python, Go, Shell

Monitoring & Observability
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Prometheus, Grafana, AlertManager, OpenSearch, Vector

Cloud & Infrastructure
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EC2, EKS, API Gateway, Lambda, SQS, SNS, S3, VPC, IAM, AWS, Kubernetes, Terraform, Docker

CI/CD & Automation
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Helm, Ansible, ArgoCD

Experience

Airbnb   August 2022 - Present

Operations Engineer   Gurgaon

- Architected and managed a scalable discovery system for a distributed, high-volume monitoring platform, automating the integration of over 19,000 devices which are filtered with business logic to enable monitoring of over 2000 devices.
- Developed and deployed multiple exporters for a new monitoring solution based on Grafana, Prometheus and AlertManager, enabling monitoring on datacenter as well as cloud based infrastructure.
- Architected and deployed an API based plug-and-play automation platform leveraging Pydantic and LLMs to enable automation for operational tasks saving upto 250 person hours per week worth of effort.
- Delivered organization-wide trainings on Grafana and the new monitoring platform.
- Managed 100+ incidents as an Incident Commander.
- Developed AirFlow pipelines to collect all incident and availability metrics for over 800 systems and services and presented them in dashboards on Superset using SparkSQL, Presto/Trino.

Hughes Systique Pvt. Ltd.   October 2021 - August 2022

Engineer   Gurgaon

- Lead DevOps Engineer in team, handling multiple customer deployments.
- Designing and doing Proof of Concept activities for Kubernetes and JenkinsX for our deployment architecture.
- Developing deployment framework in Ansible from scratch increasing our CICD automation by 70%
- Mentoring and Training new employee hires in DevOps Technologies.

Hughes Systique Pvt. Ltd.   November 2020 - October 2021

Associate Engineer   Gurugram

- Integrating Monitoring tools like Prometheus with AlertManager and Grafana.
- Developed and monitored Java-based microservices using Spring Boot, creating custom metrics to provide business-specific observability.
- Developed custom exporter to scrape metrics from Java based microservices.

Experience

Hughes Systique Pvt. Ltd.   **January 2020 - November 2020**
Trainee   Gurugram

- Implementing YOLO Object Detection for identifying Cars in predefined Slots.
- Using Orion Context Broker as our messaging service.
- Using Django to create a frontend where users can view availability of slots.
- Developing APIs on different servers using Flask to export information collected from CCTV Feeds.

Awards and Recognitions

Airbnb   **Feb 2025**

Awarded 'Greatly Exceeds' Performance Designation

Airbnb   **July 2023**

Secured an early promotion through dedicated effort

Hughes Systique   **November 2020 - August 2022**

- Recipient of 'Instant Award' for mentorship and providing training to company employees.
- Recipient of 'Instant Award' for adding end-to-end CICD Pipeline support.
- Recipient of 'Instant Team Award' for successful and timely customer deployment.
- Recipient of 'Instant Team Award' for adding features to the projects AAA Service. Recipient of 'Instant Team Award' for my work on OpenWRT Project.

Education

The Northcap University   **2016 - 2020**
B.Tech Computer Science
8.27 CGPA