

Abhishek Sah

SITE RELIABILITY ENGINEER · PRODUCT ENGINEER

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Work Experience

Instabase

Bengaluru, India

SITE RELIABILITY ENGINEER(PRODUCTION ENGINEERING)

May 2022 - Present

- Removed single point of failure for the whole of the Instabase platform by making asynchronous communication application(RabbitMQ) highly available using in-house lease-based HA library.
- Achieved reliable and resilient architecture by reducing the failover time of RabbitMQ brokers from hours to seconds.
- Conducted multiple durability and consistency tests on RabbitMQ HA cluster and resolved data inconsistency issues by fine-tuning the index and journal files flush patterns for various message sizes.
- Performed chaos tests on RabbitMQ HA cluster and utilized Envoy proxy to solve client re-connections on RabbitMQ master node failure.
- Developed business-focused dashboards to actively monitor infrastructure costs, achieved ~40% AWS Cloud cost reduction
- Designed SaaS On-Call alerting with proper escalation policies across India and US timezones supported by Alertmanager and Opsgenie.
- Contributed in actively resolving image vulnerabilities(CVEs) of various severity levels in services managed by the Infrastructure team.

Gojek

Bengaluru, India

SENIOR SOFTWARE ENGINEER, DATA PLATFORM TEAM

July 2019 - April 2022

- Designed, developed and open-sourced alert management service Siren, providing self-serve alerting on top of Cortexmetrics, with out of the box support for templates on Prometheus rules.
- Used Golang with Postgres DB to create Siren's web service and scaled it for 7 Gojek tenants which manages alerting over ~3000 deployments, ~20 Kafka and Kubernetes clusters in a self-serve manner.
- Added notification service in Siren to make it easy for teams to configure alert routing.
- Provisioned Data Platform's monitoring stack using CortexMetrics and Terraform. Scaled it to handle the scale needed ~0.6M sample/sec
- Helping manage operations of ~20 mission-critical Kafka and MirrorMaker clusters deployed across multiple Google cloud VPCs by actively participating in the On-Call operations.

Gojek

Bengaluru, India

PRODUCT ENGINEER INTERNSHIP

May 2018 - July 2018

- Developed a real-time data visualization application targeted for Android and iOS devices to show critical business metrics of the GOJEK app, seeding the data from an influx DB sink of various stream processing jobs.
- Built the mobile client applications on React Native and Web Server in Ruby on Rails and deployed in Kubernetes cluster.

Education

Indian Institute of Technology, Jodhpur

Jodhpur, India

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

June 2015 - Apr. 2019

Achievements

2017 **Team Rank 105**, ACM ICPC Regionals

Kolkata, India

2017 **Runner Up**, Microsoft Code.Fun.Do Online Hackathon

Jodhpur, India

2015 **Rank 7463**, IIT JEE Advanced

India

Programming Skills

LANGUAGES, FRAMEWORKS & APPLICATIONS

- Golang, Python, NodeJS, Postgres, MongoDB, DynamoDB, RabbitMQ, Kafka, Chef, Terraform, Jenkins
- Envoy, Docker, Kubernetes(Network Policies, Deployment, Services)
- AWS(EFS, EKS), GCP(Filestore, GKE), Alertmanager, Prometheus, Opsgenie, Influx Data Stack, NFS, Service Discovery, Aqua Scanner