

# ABHISHEK SAH

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## WORK EXPERIENCE

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**Pixxel Space**, DevOps Engineer June 2023 – Present

- [Built](#) a multitenant observability platform using Grafana Mimir, Loki, and OpenTelemetry Collector with optimized retention, availability, and cost management supporting ~40 services across ~10 teams.
- Architected secure SSO authentication for self-hosted Grafana using AWS Cognito, enabling organization-wide observability access for ~200 engineers.
- Automated VM orchestration pipeline with Terraform and Ansible to provision sandbox environments, streamlining developer workflows and eliminating manual provisioning tasks.
- Implemented Infrastructure as Code (IaC) workflows using Terraform and GitHub Actions, reducing infrastructure setup time from days to minutes. [Blogs: [Part 1](#), [Part 2](#)].
- Designed event streaming architecture using Kafka with GitOps-based schema management, enabling asynchronous processing of hyperspectral imagery.
- Developed [RQL](#) (RESTful Query Language) library to provide advanced search capabilities for administrative functions in the Golang-based web services.
- Led the migration of core Billing and Identity service from grpc-gateway to ConnectRPC – 200+ RPCs, improving developer experience for all platform teams and enabling browser-native SDK support.
- Developed and led cross-functional (XFN) notification infrastructure supporting multi-channel customer engagement through subscription management and in-app/email delivery.

**Instabase**, Site Reliability Engineer May 2022 – June 2023

- Engineered a high-availability solution for RabbitMQ, reducing broker failover time from hours to seconds and eliminating single points of failure across the Instabase platform using distributed locking mechanisms
- Resolved critical data inconsistency issues in RabbitMQ HA cluster through shared storage optimization, durability testing, and fine-tuning of index/write-ahead log configurations
- Optimized cloud infrastructure costs through business-focused dashboards and monitoring, achieving ~40% reduction in infrastructure expenses
- Designed a global on-call alerting system with escalation policies spanning India and US time zones using Alertmanager and Opsgenie, managing ~50 critical alerts
- Maintained security compliance by promptly resolving vulnerabilities (CVEs) across 14 microservices

**Gojek**, Product Engineer July 2019 – April 2022

- Developed and open-sourced [Siren](#), an alert management service with Prometheus templated rules support, used across multiple teams
- Architected Siren web service using Golang and PostgreSQL, serving 7 Gojek tenants and managing alerting for ~3,000 Kubernetes deployments across ~20 Kafka and Kubernetes clusters
- Enhanced Siren with [Alertmanager orchestration](#), simplifying alert routing configuration and reducing setup complexity for development teams
- Provisioned and scaled Data Platform monitoring infrastructure to handle ~600K metrics samples per second using Cortex Metrics
- Maintained high availability through [on-call operations](#) for mission-critical Kafka and MirrorMaker clusters

## SKILLS

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- **Languages:** Golang, Python
- **Cloud Platforms:** AWS (VPC, EKS, EC2, S3), Docker, Kubernetes
- **Infrastructure:** Terraform, Ansible, RabbitMQ, Kafka, Github Actions, Jenkins, Protobuf, Service Mesh
- **Observability:** Grafana, Prometheus, Mimir, Loki, OpenTelemetry, Promtail

## EDUCATION

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**Indian Institute of Technology Jodhpur**  
*Bachelor of Technology, Computer Science & Engineering*

June 2015 – April 2019