Vikas Lalwani

Senior Engineering Manager

⊙ Remote

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Social

in vikaslalwani

Experience

Teikametrics
Senior Engineering Manager
January 2022 - Present

Expedia Group
Software Development Engineer
July 2013 - January 2022

IBM
System Engineer
February 2012 - July 2013

Skills

DevEx/DevOps/Platform

Kubernetes/Docker

AWS/OCI/Hybrid/Multi-Cloud

Kafka / Streaming Platform

Python (Primary)

Ruby, Golang, Bash (Secondary)

Argo/CircleCI/Jenkins

IaC/Terraform/Chef/Packer

Elasticsearch/Cassandra/Postgres

Datadog/Splunk/Grafana/Sentry

Observability/SLI/SLO/SLA

Event Driven Architecture

Chaos Engineering/Resiliency

I get things running, I keep them running

~14 years of Technical Architecture and Management

Building in-house DevEx/DevOps/Platform solutions and product ownership.

- Designing API and Event Driven systems and multi-cloud migrations
- In-org customer interactions, product ownership, budgeting, vendor negotiations
- Automations using serverless and ChatOps patterns
- Scalable and distributed cloud-native solutions
- Security/Data/ML/AIOps at scale (1M+ tps)

Projects

Teikametrics - Engineering Management

- Execute SRE and Platform vision e2e for Teikametrics
- **Building a bridge** between various operational entities like ProdOps, Accounts, Product to Dev team
- **Multi cloud and multi vendor management**
- **Budget and Cost** management for Cloud infrastructure
- Ensuring ecosystem **compliance** for pre-IPO/acquisition preparation using **Vanta** and other tools

Teikametrics - Infrastructure Management and SRE

- **Terraform**ing nearly **100%** of infrastructure as code via modules including 3rd party vendors like **Databricks and Aiven**
- In-house **TerraformCD** deployments
- Implemented **SLI-SLO-SLA** driven action across org
- Achieving service **SLAs** to **99.9% and above** from a legacy 90%
- **In-House Scorecard** services for fully automated **Ops compliance**
- **SSO** integration for OpenVPN, AWS, Argo etc

Teikametrics - Chatops

- **Chatops** implementation using **Slack** and **Argo Workflows**
- Chatops based **in-house Incident Management** using Jira and Squadcast. Features - Create, Update, Resolve, Remind, Postmortem, MTTA, MTTD, MTTR
- Chatops based **terraform** deployments over Argo Workflows. Features - Plan and Apply
- **Data Sync** across environments for a robust staging and pre-prod environment

Projects

Teikametrics - Application Bootstrap and Deployment

- E2E automated app bootstrap including creation of git repo, init using **cookiecutter** templates, CI/CD pipeline, observability and Datadog setup
- Standardised git branch deployments for **ad-hoc development environments**
- Migrate from 3rd party Convox deployment to in-house **ArgoCD** setup
- **Developer Experience** by obscuring most parts of the ecosystem

Expedia Group - Conversations Platform

A chatbot platform, that can be adopted across business domains with a focus on travel industry.

- Delivered app health **scorecard** to measure **prod-readiness** based on SLOs, cost and other dimensions
- Generating real-time ops **insights metrics** over chat data using **Faust**
- Ops and automations around **Confluent Cloud**
- Conversations Platform **migration** from REST to **Event Driven**
- **Migrating** pipelines and infra from EC2/ECS to Kubernetes (EKS)
- **Chaos Engineering and Game Day Exercises**
- **SLI/SLO/SLA** driven operations across Conversation platform
- Jenkins based SRE automations

Expedia Group - Streaming Platform

Providing Confluent OSS (Kafka + Connect) as a fully managed in-house streaming data platform

- REST based **abstracted data ingestion** into the EG's Kafka Clusters with an in-house stream registry
- Data conversion from raw JSON to Avro/Protobuf for seamless integration of older apps.
- **Automated onboarding** through application templates **re-using** the app bootstrap platform
- **Automated** Kafka Connecter monitoring and **remediation**
- **Custom Kafka Connectors** tailored to the business use-cases. Example, S3, Cassandra, HTTP Sinks
- **99.9%** Kafka and Connect cluster uptime
- **Interactions** with global teams for migration and adoption

Expedia Group - Doppler

A **real-time analytics platform** to monitor business and system events in EG. Consuming 10B+ messages/day and generating 50M+ trends, the system analyzed booking, traffic and **clickstream** events.

- **Time Series** aggregation, Anomaly Detection & notification services.
- **Scalable** microservices with Kafka, ES, Cassandra as core components, spanning across 500+ EC2
- Deploy, manage and ops of high volume **Kafka(10B+/day), Cassandra(100TB+) and ES clusters.**
- 2 in-house time-series data storage systems for real-time and batch data.
- **Interactions** with global teams for migration and **adoption** of the system
- Achieving **99.9%** uptime of all service via **incremental re-designs**

Projects

Expedia Group - Stratus

Fully-automated delivery platform for deploy and release pipelines(CI/CD) using microservices and AWS

- Automations over AWS infrastructure with **Chef**, Ruby and AWS SDK.
- **Automated bootstrap** of applications alongwith their pipelines
- Automations using **Python**, Ruby.
- Data center to **cloud migration to** new AWS based deployment platforms

Expedia Group - IOTA

- International Operations and **Traffic** Analysis
- Advanced **Splunk** User, Graphite, **Grafana** and similar systems.

IBM - Common Commerce Engine

<u>SHOP@IBM.COM</u> powered by WCS to automate the store creation for sale of IBM's servers and equipment.

- App support and dev with IBM proprietary technologies like WCS
- Deployment over websphere in data center servers
- Consistent delivery of monthly release patches.

Education

Swami Keshvanand Institute of Technology M & G	**2007 - 2011**
	B. Tech (Information Technology)
Seedling Public School	**1994 - 2006**
	CBSE

Languages

English

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Hindi

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Sindhi

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