

# Vikas Lalwani

Staff Site Reliability Engineer

I get things running and keep them running.

~12 years. SRE Tech Leadership and building in-house DevEx/DevOps/Dev-Platform solutions.

Location Remote, India  
Email vikaslalwani16@gmail.com  
Phone +91-<REDACTED>  
Linkedin [vikaslalwani](#)

- Designing REST and Event Driven solutions on kubernetes.
- In-org customer interactions and product ownership,
- Designing automations using serverless and Chatops patterns
- Scalable applications in Cloud (mostly AWS)
- Kafka/ES/Cassandra at scale (1M+ tps), alongwith the infrastructure and operations for all of it.
- Setting up, automating and standardizing SRE and Devops deployment platforms

## Skills

## Projects

Teikametrics Staff Site Reliability Engineer	Jan 2022 - Present
Expedia Group Software Development Engineer	Jul 2013 - Jan 2022
IBM India System Engineer	Feb 2012 - Jul 2013

### Devops -Teikametrics

Core Devops/Platform team for Teikametrics, overhauling and standardizing the devops methodologies as the Series B startup grows at a rapid pace

- Working closely with the tech **leadership** for adoption of industry standard Devops and SRE practices
- Application and system **design** with Dev teams
- **Automated** application **bootstrap** services
- **Scorecard** services for fully automated ops **compliance**
- Custom **kubernetes deployment platform** wrapped over open source tools like Argo and Helm
- ChatOps implementation using Slack and Argo Workflows
- Implemented **SLI/SLO/SLA** across org
- **Chaos** Engineering and Game Day Exercises
- Data sync initiatives for robust pre-release environments
- Managing Aiven **Kafka** and Connect using **Terraform**
- DataOps, MLOps around Databricks using terraform

## Work Experience

Apache Kafka	AWS / Hybrid Cloud
Argo/ Jenkins/ CircleCI	IaC - Terraform
Chef/Packer	Platform
Devops	MLOps
Elasticsearch	Postgres
Event Driven Architecture	Datadog/ Grafana/ APM/ Splunk
Faust/ Kstreams	Data Streaming
Kubernetes	Cassandra
Python (Primary)	Golang/Ruby/Java (Secondary)

### Conversations Platform - Expedia Group

The next-gen virtual agent chatbot platform, that can be adopted across business domains with initial focus on travel industry

- Developed application health **scorecard** to measure **production-readiness** based on application health, SLOs, cost and other dimensions
- Monitoring, operations and automations around **Confluent** Cloud
- Conversations Platform **migration** from REST to **Event Driven** Architecture
- Generating real-time operational **insights** over chat data using **Faust** processors
- Migrating deployment pipelines and infrastructure from EC2/ECS to Kubernetes (EKS)
- Chaos Engineering and Game Day Exercises
- Implemented **SLI/SLO/SLA** based operations across Conversation platform
- Jenkins based SRE automations

Swami Keshvanand Institute of Technology B.Tech, Information Technology	June 2007 - June 2011 70.5%
Seedling Public School Senior Secondary (XII-th) CBSE	Mar 2004 - Mar 2006 77.6%
Seedling Public School Higher Secondary (X-th) CBSE	Mar 1994 - Mar 2006 82.4%

### Streaming Platform - Expedia Group

Providing Confluent OSS (Kafka + Kafka Connect) as a fully managed streaming platform

- Global Streaming data platform with an in-house stream registry
- **REST based data ingestion** into the EG's Kafka Clusters.
- Data conversion from raw JSON to avro and Protobuf, hence, easing the integration into already running microservices.
- **Standardized and automated onboarding** through application templates re-using the application bootstrap platform created earlier.
- Automated Kafka Connector monitoring and remediation.
- Creating **custom Kafka Connectors** tailored to the business use-cases. Example, S3, Cassandra, HTTP Sinks
- Achieving Kafka and Connect cluster uptime in accordance with the expected **SLOs**
- **Interactions** with global teams for migration and adoption

### Doppler - Expedia Group

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 over 100s dimensions

- Time Series aggregation, Anomaly Detection & notification services.
- **Scalable** microservices with Kafka, ES, Cassandra as core components, spanning across 500+ EC2 nodes.
- Deployment and e2e management and operations of high volume **Apache Kafka(10B+/day), Cassandra(100TB+) and Elasticsearch clusters.**
- Two in-house time-series data storage methodologies for real-time and batch data.
- **Interactions** with global teams for migration and adoption of the system

### IOTA/Stratus - Expedia Group

**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.
- Platform for automated creation and management of bootstrapping applications longwith their CI/CD pipelines over Git and **Jenkins.**
- Automations using **Python**, Ruby.
- Advanced **Splunk** User, Graphite, **Grafana** and similar monitoring systems.
- Interactions with global teams for cloud **migration** and adoption of the new AWS based deployment platforms

### Common Commerce Engine - IBM

SHOP@IBM.COM powered by WCS to automate the store creation for sale of IBM's servers.

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