

# KISLAY VERMA

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## SUMMARY

Technical leader with 12+ years of experience in shipping robust and scalable distributed backend systems in multiple domains. Strong communication skills and ability to mentor large teams to drive technical evolution.

## PROFESSIONAL EXPERIENCE

### Uber India R&D Pvt. Ltd

Senior Software Engineer II

**Bangalore, India**

Feb 2019 – Present

- Leading a distributed team of 6 developers in detecting error in Uber's global map data using big data technologies (Spark, EMR, Hadoop etc) to match terabytes of real world data against Uber map models.
- Developed a plug-and-play big data architecture from ground up to accommodate an increasing number of error detection models and unified reporting formats.
- Continuously scaling the infrastructure to match Uber's explosive global expansion and bringing new data sets to bear on the map error detection problem.
- Involved in various cross-team initiatives to generate reusable machine learning data features and data-pipelines.

### Myntra Designs Pvt. Ltd.

Architect

**Bangalore, India**

Apr 2018 – January 2019

- Responsible for overall technical architecture of outbound supply chain. Working with a team of 70 developers to deliver high quality product deliverables while continuously improving system architecture.
- Re-designing SCM products into platforms to achieve externalisation and monetisation. I am deeply involved with all teams in re-architecting and implementing our systems in terms of core capabilities, integrations, and multi-tenant workflows.
- Driving use of reactive technologies and micro-service architecture in Myntra. Developed PoCs in different frameworks and now helping teams evolve their components using these paradigms via hands-on participation and knowledge sharing.
- Designed and implemented a platform which processes events from various services to generate business/technical metrics for the system. This is being used by multiple teams as the central, managed solution for real time monitoring, reporting and alerting requirements.
- Developed an end-to-end simulation framework for supply chain operations using clustered Akka actors and Vert.x. This system helps in work-force planning and on-ground failure scenario/congestion simulation.

### Myntra Designs Pvt. Ltd.

Associate Architect

**Bangalore, India**

Oct 2016 – Apr 2018

- One of the principal developers on Myntra's REST service template. Implemented and operationalised core parts of Myntra's services infrastructure like service discovery, request tracing, circuit breakers, and log aggregation and incorporated these into the core application infrastructure.
- Designed and developed Myntra's Taxation and Invoicing platforms (CXF, Spring, Redis, MySQL, Velocity, Rulette). Both platforms have been used heavily and extended easily by other teams to optimise tax recovery, reporting, and invoicing for dozens of Myntra sellers as well as other companies like Jabong, Mango etc.
- Made the order management system horizontally scalable by introducing MySQL DB sharding. This was the first database sharding implementation in Myntra and has been tested for up to 100K orders/minute.
- Developed a near real-time order data cache (Vert.x, Java, Kafka, Elasticsearch) to scale order data reads. This serves massive traffic during sale events without endangering core order processing.

### Myntra Designs Pvt. Ltd.

Technical Lead

**Bangalore, India**

Feb 2015 – Oct 2016

- Responsible for technical design and day-to-day activities (scrum, sprint planning etc) of the 6 member OMS team. Mentored this team of college freshers into one of the most high performing teams in Myntra.
- Designed Myntra's external marketplace integration platform (Java, MySQL, Spring, Hibernate, RabbitMQ) to allow Myntra to sell its inventory on any marketplace. This platform orchestrates order lifecycle across Myntra's core fulfilment systems as per the requirements of the store.
- Pioneered performance testing using production environment in Myntra. Evangelised this effectively to make it a standard practice in all teams.

- Completed the deprecation of the legacy PHP stack in favour of a highly scalable order processing pipeline in 1 year (this had been dragging on for over 3 years).

## **Myntra Designs Pvt. Ltd.**

Senior Software Engineer

**Bangalore, India**

Jun 2013 – Feb 2015

- Built Myntra's order capture system (Java, MySQL, Hibernate, Spring, Kafka) ground up. This system easily handled 40K orders/min when the previous system crashed regularly at ~2K orders /min.
- Built warehouse outbound quality checking tool (Spring, JSF). This significantly increased QC efficiency and kept up with increase in scale for four years (from 1 warehouse to 18) with only minor changes.
- Developed a discount change management tool (JSF, Spring, Hibernate, CXF) to automate manual workflows. This reduced the discount change lead time from 2 days to 2 hours and the operations team's size from 4 to 1.

## **D. E. Shaw & Co.**

Senior Member Technical

**Hyderabad, India**

July 2009 – June 2013

- Designed a data warehouse and REST services (MS-SQL, Java, Spring, REST, JSP) to provide firm-wide access to securities lending data.
- Led a 3 member team to build a portal with extensive reporting capabilities for Treasury senior management. Was responsible for project planning, design/implementation, and delivery.
- Developed APIs and SDKs to incorporate lending data into trading systems and quantitative prediction models.

## **D. E. Shaw & Co.**

Member Technical

**Hyderabad, India**

June 2007 – July 2009

- Worked on a webapp to track commissions and financing costs paid to brokers.
- Implemented UI tools and automated workflows for managing the firm's security borrows and lends across markets worldwide, eventually enabling the business volume to scale by more than 200%.

## **TECHNOLOGIES AND TOOLS**

- Proficient : Data Structures, Algorithms, Microservices, Java, MySQL, Spring, Hibernate, REST APIs, RabbitMQ, Vert.x, CXF, JAX-RS, Enterprise architecture and integration patterns, Jenkins, Git
- Working Knowledge : Akka, Consul, ElasticSearch, Kafka, Cassandra, Redis, EhCache, JSF
- Basic Knowledge : Spark, Hadoop, Hive, Python, PHP

## **EDUCATION**

**Netaji Subhas Institute of Technology (Delhi University)**

B.E - Information Technology

**New Delhi, India**

2003-2007

## **OPEN SOURCE**

### **Rulette**

- Lightweight and fast Java library for configuring and evaluating business rules.
- Widely adopted in Myntra for diverse use cases like customer call routing, taxation, and workflow engines.

### **Throo**

A Vert.x/Spring based HTTP reverse-proxy.

### **QVertx**

Spring Boot style ready-to-launch service template for the Vert.x framework