# Rishi Mittal

Senior Software Engineer@Zomato

P :  +91-8904774901
E :  rimittal44@gmail.com
Profiles : [LinkedIn](#) [Github](#)
[Spoj](#)

## EXPERIENCE(+4 years)

**Zomato,** Gurgaon — *Senior Software Engineer - SRE / Devops*

4july 2016 - Present

- **Microservice Architecture:**
  - Provisioning ECS Clusters, and services using terraform, using Envoy.
  - Deployment for microservice on ECS cluster, Envoy mesh, using Jenkins on uat & production environment
- **Terraform** in Zomato Infrastructure for ease of creating AWS and openstack resources and created **On-demand staging architecture** integrated with hipchat.
- **Kubernetes/kops** cluster provisioning & deploying **microservices** on K8 cluster using jenkins.
- Migrating entire infrastructure (apache, solr, beanstalk pipelines) to **Spotinst**, impacting in 80% cost reduction.
- Migration of application code to **php5.5 to php7.0** including api changes and infrastructure changes.
- **Mysql Infrastructure**
  - DB Migrations(using Data Migration Service @AWS)
  - Maintenance & uptime of Mysql servers
- **Cassandra/Solr Infrastructure:**
  - Managing production level autoscaled setup for Solr Setup, and cassandra setup.
- Experience around tools like graylog, travis integration, goCD, twemproxy, Openvpn, mysql-proxy integration, SpotInst, sentry, newrelic, jenkins, hipchat deployment integration, percona-toolkit, pagerduty, vivid-cortex, apache, redis, memcached, **envoy**, rotor  etc.
- Experience around aws services EC2, EBS, ELB, ECS, RDS, ElastiCache, DynamoDB, SQS, S3 & Glacier, CloudWatch, ALB  etc.
- **Zomato core service - (PHP)**
  - Designing MVP, Deployment Strategies.
  - Core php module/library used by all the microservices in production to interact with data sources(mysql, cassandra, solr, redis/twemproxy) etc.
- **Zomato user service -**
  - Basic Structure for delivering user information to be used by different services.
- Others
  - Backend apis for Mysql load balancing.
  - Migrating all the dashboards to separate project(Zomato Dashboards), using JWT based authentication. (PHP).
  - Dashboards to monitor the important KPI (order volume, table reservations) etc.
  - Custom Drivers for scaling Redis along with twemproxy.(module zomato-core-php)
  - Wrote deployment pipeline using ansible and hipchat integration.
- Leading platform team of 6 members.

## SKILLS

- Kubernetes, Docker.
- C , C++ ,  Java
- JS, bash, Python(Django, flask), Php
- MySql, redis, mongodb, Memcached, twemproxy
- Gulp, travis, bower
- MVC, Worker-queue models(sqs), celery, pubsub(Kafka).
- AWS, AWS-sdk.
- Solr, ElasticSearch, Haproxy, nginx

## EDUCATION

**IIIT-Hyderabad,** Hyderabad — *M.Tech(Comp Sc.)*

July 2013 - May 2015

CGPA : 7.5

**C-DAC,** Hyderabad — *PG-Diploma(Comp Sc.)*

Sep 2011 - Jan 2012

Grade: A

**Rajasthan University,** Alwar — *B.tech(Comp Sc.)*

July 2007 - May 2011

CGPA: 7.0

### Practo Technologies, Bangalore — *Software Engineer*

1st June 2015 - 1st July 2016

- **Practo Hawk(Flask, Python, mongodb) -**
  - Dashboards to monitor the important KPI (appointments, patients added , EMR records etc)
- **Practo Deplex(Flask, Python, boto API, fabric tasks, AWS ) -**
  - One click deployment tool.
  - Enables 40+ automated deployments per day.
- **Practo Eden (Java, multithreading ) -**
  - Design & Development of API based sharded Database layer which uses custom indexing & asynchronous calls.
- **Practo Accounts:**
  - Submitted code for multiple fixes and enhancements for the current code structure to more towards oops oriented architecture.
- **Practo AWS Account:**
  - Holds responsibility for the optimizing aws account usage for devops use cases, hands on with New Relic, Sentry, Graylog, staging env. etc.
- Accomplished responsibility for mentoring 2 interns.

### C-DAC, Hyderabad — *Project Engineer*

1 Feb 2012  - Dec 2012

- **Mentor(Java, Spring, hibernate) :** Developed from scratch both frontend & business module for  content delivery platform.
- Conducted research & proof of concepts on multiple cross-platform mobile development tools like mosync, phonegap..

## PROJECTS

Index Wiki( Search engine)

LightWeight -DB Engine

Internet Of Things(platform to create apps)

Conversation Analysis over Twitter Data(Intelligent chatter)

Extracting Yelp Contact data(data extraction & crawling)

Multithreaded File Server(Distributed File System)

## ACHIEVEMENTS

- Teaching Assistant for Advanced Problem Solving course in Monsoon-2014 Session.
- Gate 2013 Percentile : 98.71
- Hosted National level Conference at C-DAC Hyderabad , "Mobile and Ubiquitous Computing"
- Participated in workshops like Javaone-2012(Oracle) , "Efficient Software Development "(IIT Hyderabad)
- Finished in Top 2 in IOTA . (College Technical Festival)
- Sports Captain in School Volleyball Team
- Stood 1st in Science & Geography projects in IXth and Xth
- NTSE Scholar Class Xth

## AREAS OF INTEREST

Data Structures, Algorithms, Systems, Designing Products, Programming skills, Scaling Systems, Operating Systems, Platform Engineering.