

Rishi Mittal

Site Reliability Engineering@Careem

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Experience (+5 Years)

Careem, Dubai(UAE) —SRE Engineering

19th Nov, 2018 - Present

- **Careem SLO -**
 - Design and implementation of the framework to measure service reliability.
 - Defining SLI, error budgets per service, to measure SLAs.
- **CI/CD Infrastructure:**
 - Scalable Gitlab Setup(master-slave/runners) using cloudformation, with monitoring & alerting, adopted by more than 10 services.
 - Defining modules, contracts to consume for CI/CD adoption.
- **CareemPay Infrastructure :**
 - Scalable IaaS for multiple microservices across 4 different environments, CI/CD setup, using Gitlab, AWS cloudformation(generated using troposphere) & automation of deployments/backups in very strict deadlines.
 - Designing modular network architecture, based on resources requirement, adding suggestions for cost improvements.
 - Proactive monitoring, On call support, leading fire fighting during issues, writing RCA Reports along with responsibility to get the fix delivered.
 - Responsible for upholding Service SLAs, based on contracts.
 - Automated scripts for monitoring cost and delta every day.

Zomato, Gurgaon (India)— Engineering Lead SRE/DevOps

4july 2016 - 15th Nov 2018

- **Microservice Architecture (Pilots & Experiments):**
 - Provisioning ECS Clusters, and services using terraform, using Envoy.
 - Deployment for microservice on ECS cluster, Envoy mesh, using Jenkins on UAT & production environment.
 - **Kubernetes/kops** cluster provisioning & deploying **microservices** on K8 cluster using jenkins, aws codepipeline.
- **Zomato Infrastructure :**
 - Wrote deployment pipeline using **ansible** and **hipchat** integration.
 - **Terraform** in Zomato Infrastructure for ease of creating **AWS** and **openstack** resources and created **On-demand staging architecture** integrated with hipchat/chatops.
 - Migration of application code to **php5.5 to php7.0** including API changes and infrastructure changes.
 - Migrating entire infrastructure (**apache, solr, beanstalk pipelines**) to **Spotinst**, impacting in 80% cost reduction.

Technical Skills

- C , C++ , Java
- JS, bash, Python (Django, flask), PHP
- Apache, Uwsgi etc.
- Kubernetes, Docker
- MySQL, Redis, Mongoddb, 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

- Managing & Setup of **Search Infrastructure** setup, **Solr(master-slave)** across multiple environments.
- Experience around tools like graylog, travis integration, goCD, twemproxy, Openvpn, mysql-proxy integration, SpotInst, sentry, newrelic, jenkins, hipchat deployment integration, percona-toolkit, pagerduty, apache, redis, memcached, **envoy**, rotor etc.
- Experience around AWS Services EC2, EBS, ELB, ECS, RDS, ElastiCache, DynamoDB, SQS, S3 & Glacier, CloudWatch, ALB etc.

- **Zomato Mysql Infrastructure :**

- Managing **25** node master-slave Cluster, with enhanced tooling & Monitoring support.
- [Github Gh-ost](#) setup and support to execute Critical DDL queries, real time on Production.
- Experience in Mysql Proxy, RDS, Aurora Db. Migrating databases using DMS.

- **Leadership :**

- Leading platform team of 6 members.
- Responsible for team's KPI, responsibilities, guiding fellow engineers to achieve growth within the team.

Practo Technologies, Bangalore(India) — Software Engineer

1st June 2015 - 1st July 2016

- **Practo Hawk(Flask, Python, mongodb)** - Tool to develop dashboards to monitor the important KPI (appointments, patients added EMR records etc)
- **Practo Deplex(Flask, Python, boto API, fabric tasks, AWS)** - Ownership of 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** - Code for multiple fixes and enhancements for the current code structure to move towards Object Oriented Architecture.

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..

Achievements

- Teaching Assistant for Advanced Problem Solving course in Monsoon-2014 Session.
- Gate 2013 Percentile : 98.71
- 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

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)

