

Rishi Mittal

Senior Software Engineer@Careem

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Experience (+6 Years)

Careem, Dubai (UAE) —Senior Software Engineer

19th Nov, 2018 - Present

- **Careem SLO & CI/CD -**
 - Design and implementation of the framework to measure service reliability.
 - Defining SLI, error budgets per service, to measure SLAs.
 - 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:**
 - 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.
- **CareemNow :**
 - Features in Search Service , Promotion Service, Customer Order flow. etc.

Zomato, Gurgaon (India)— Engineering Lead

4july 2016 - 15th Nov 2018

- **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.

Technical Skills

- C , C++ , Java
- JS, bash, Python (Django, flask), Php(Lumen, Laravel)
- Apache, UWSGI etc.
- Kubernetes, Docker
- MySQL, Redis, MongoDB, Memcached, Twemproxy
- Gulp, Travis, Bower
- MVC, Worker-queue models(sqs), Celery, PubSub(Kafka).
- AWS, AWS-SDK.
- Solr, Elasticsearch, HAProxy, Nginx

Education

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

July 2013 - May 2015

CGPA : 7.5

- **Zomato Services & 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**) to **Spotinst**, impacting in 80% cost reduction.
- Managing & Setup of **Search Infrastructure(Solr)** setup, 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 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

June 2015 - July 2016

- Design & development of **Practo Hawk** (*Flask, Python, MongoDB*) , a tool to monitor the business KPIs (appointments, patients added EMR records etc)
- Architecture and development from scratch of **Practo Deplex** (*Flask, Python, boto API, Fabric tasks, AWS*), One click deployment tool, Enabling 40+ deployments/day for more than 50 applications.
- Development of *modules* in **Practo Eden** (*Java, kafka, Multithreading*), API based sharded Database layer which uses custom indexing & asynchronous calls.
- Re architecture of **Practo Accounts** (*In house Single On Service written in Flask, Python*), multiple fixes, bugs and enhancements towards OOPS principles.

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

Achievements:

- Teaching Assistant for Advanced Problem Solving course in Monsoon-2014 Session.
- Gate 2013 Percentile : 98.71
- Finished 1st 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

C-DAC, Hyderabad — Project Engineer

Feb 2012 - June 2013

- Design & development of **Mentor**, a Content Management Product, implemented using Java, Struts2, Spring, Hibernate, deployed at research Institutions in India.
- Conducted research & proof of concepts on multiple cross-platform mobile development tools like mosync, phonegap.
- Implementation of Eucalyptus Cloud (Private cloud setup).
- **Case Study** : Leveraging mobile technology for developing tools for Visually Challenged Kids.

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)