# Rachit Thariani

Engineer II

## Contact

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### **Skills**

Data Structures

**Algorithms** 

System Design

Java

Python

Golang

Scala

Dropwizard

**GRPC** 

**Protocol Buffers** 

**RESTful Services** 

MongoDB

MySQL

Git

**RHEL** 

Distributed Systems

Django

- Certified Safe 5 Agilist.
- Hands-on experience in Distributed Systems, System Design, Spark, Netty, GCP BigQuery, AWS Redshift, Python, Java, Scala, gRPC, RESTful Services, Linux, Jenkins, SQL/NoSQL Databases and Version Control tools.

## **Work History**

2019-06 -Current

#### **Engineer II**

American Express, Bangalore, Karnataka

Product: Slash HBase, Slash Redis, Slash Logger, Slash Cache, Slash CLI

- Working as a part of Big Data Platform and Engineering team under Amex CTO. Responsible for developing end-to-end scalable software systems.
- Worked on benchmarking and comparing various cloud offerings (GCP, AWS, Snowflake) for data records up to 2 billion. Used scala and python for as my preferred language of choice for writing spark jobs the.
- Used Spark framework for getting meaningful information from
  partitioned data placed as parquet file format on HDFS utilizing Spark
  Core, Spark Streaming and Spark SQL API. Worked on loading/unloading
  of data from/to HDFS and AWS S3 using Scala and Java. This included
  working with multiple cluster arrangement along with Kubernetes for
  load balancing.
- Worked on solving data engineering problems using PySpark. For instance, I have created a nested histogram generator which can take in data from different sources (e.g. Parquet files, Relational DBs) and segregates all the data into corresponding bins. Using this histogram, we were able to target specific infromation to be used by other software systems and thus reducing our overall computation time and cost with a considerable factor. This is submitted as an open source contribution within AMFX
- Developed software system which provides distributed on-demand cache services. We heavily use Netty, gRPC, protobuf, Redis, HBase and OCP.
- I along with interns developed Slash CLI using Golang. This is a command line interface to use our Slash Services (Slash HBase, Slash Cache, etc.)
- Built BitBucket, Jenkins and OCP pipeline for CI/CD. This eased out deployment efforts.

2018-02 -2019-04

# **Software Engineer**

TOSHIBA Software India Pvt. Ltd., Bangalore, Karnataka

- Part of WEBAPI team under TTEC division, responsible for developing Web applications for better customer experience.
- Implemented load balancer by developing method for health check and service discovery by using NGINX, boost python, WSGI server, GNU tools, Python 3, C++ 14 to distribute tasks among different MFPs based on Round-robin technique.
- Following Agile Scrum methodology and MVT pattern to assure development of high quality, low coupling and high cohesion components.
- Responsible for optimizing already implemented algorithms to reduce time taken per API hit.

2015-12 -2018-01

#### **Software Engineer**

Wipro Technologies, Bangalore, Karnataka

- Part of Wipro Holmes team, responsible for developing BOTs.
- Developed NLIDB BOT as a part of five BOT cluster. Used Sails JavaScript framework to develop end-to-end solution.

- Implemented health check and service discovery system for BOTs using Python, Flask, Apache http server, Consul, messaging queue – ActiveMQ.
- Written backend code for RTO BOT. This BOT was used to automate regression test suites using customized algorithms, along with elastic search, logstash and kibana. This BOT was able to reduce selection of test cases by 20-40%.

### 2015-01 -2015-11

#### Jr. Software Engineer

Laitkor Infosolutions Pvt. Ltd., Lucknow, Uttar Pradesh

- Developed real time object tracking system for surveillance camera using Raspberry Pi, OpenCV, Python.
- Creation of a console application using socket programming which synchronizes Arduino Uno R3 mounted on a drone system for streaming multimedia data on VLC Media Player. Used VLC media player APIs to achieve the results.

## **Education**

2011-07 -	B.Tech: Computer Science And Engineering
2015-07	M.C. S.C.E.T Lucknow
2010-04 - 2011-04	Intermediate (C.B.S.E.)
	St. Cathedral Sr. Sec. School - Lucknow
2008-04 - 2009-04	High School (C.B.S.E.)
	St. Cathedral Sr. Sec. School - Lucknow

## **Accomplishments**

- Certified SAFe 5 Agilist (March 5, 2020 March 4, 2021).
- Achieved recognition for outperformance (2020) in my team at American Express.
- Submitted a software system (nested histogram generator) as an open source contribution within American Express.
- Mentor for tech interns at American Express. This includes mentoring interns from across the globe whosoever joins our team
- TOSHIBA Awarded for successful completion of OPM project before the expected deadline.
- TOSHIBA Member of "Patents Group" at TSIP.
- Aspiring Minds –AMCAT Topper, Nov'15 Jan'16.
- I was awarded the certificate of appreciation for presenting paper on "Introduction to AI" at National Seminar on "Technical Education and Challenges" organized by the "Society for the Advancement of Environmental Sciences".

#### **Hobbies**

- Reading technical articles.
- Skating
- Swimming