

# ROHAN SADALE

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## Education

**University of Minnesota**, Minneapolis, MN, USA  
Master of Science, Data Science    GPA: 3.793/4.000

September 2015 - June 2017

**College of Engineering (COEP)**, Pune, MH, India  
Bachelor of Technology, Computer Engineering    GPA: 7.99/10.00

July 2008 - July 2012

## Technical Skills

**Languages:** Python, C++, Java, Go, Shell, Ansible, R, Perl, PL/SQL & Javascript.

**Databases:** MongoDB, MySQL & Oracle 11g.

**Technologies/Frameworks:** Distributed Systems, Microservices, Containerization, Kubernetes, Unix, Storage Backup-Restore, REST, Jenkins, AWS, Hadoop, Spark & scikit-learn.

## Industry Experience

### • **Veritas Technologies LLC**, Mountain View, CA, USA

Software Engineer

July 2017 - Present

- Key contributor in development of *Flex Appliance* - a Platform as a Service (PaaS) solution. It is a microservices based, highly available and scalable solution for hosting Veritas applications. It supports large scale application deployments using *containers* and *flexible shared storage*. Major contributions include:
  - \* Design and development of storage expand and shrink feature.
  - \* Containerization and deployment of applications on the platform.
  - \* Development of rolling upgrade/auto-rollback feature for the platform.
- Architected and developed Appliance Software Update Management (*ASUM*) framework. *ASUM* is deployed in *Veritas Flex Appliance* and *Veritas Iris*. It provides:
  - \* **zero-downtime rolling upgrade and rollback** functionality for platform(OS) and the application.
  - \* software management capabilities like uploading, deleting and validating packages using RESTful APIs.
- Designed an innovative solution for testing containerized applications. The solution provides:
  - \* ability to spin up multiple instances of an application in a sandbox environment using private IP address.
  - \* ability to deploy a cloud instance locally using *Fake S3*.
  - \* a user-friendly way to simulate platform, add integration tests and generate standardized test reports.

### • **Barclays**, Pune, MH, India

Technology Analyst

July 2012 - July 2015

- Developed a streamlined ETL system for generation of financial reports for APAC regulatory bodies.
- Implemented data models and techniques for extracting data from heterogeneous trading databases; developed data transformation and statistical analysis packages.

## Academic/Personal Projects

- **Distributed File System:** Implemented a Distributed File System in which clients shared files with each other. Multiple clients could read/write files at the same time and the files would be replicated (distributed) across several file servers. Consistency across these files was achieved using Quorum based techniques.
- **MapReduce like Compute Framework:** Developed a MapReduce framework for performing computations in distributed fashion; implemented techniques like proactive fault tolerance, fault detection and recovery to guarantee correct results even in the presence of node failures.
- **Clustering and Classification of emails:** Implemented Ridge Regression classifier, kNN classifier, Centroid-based classifier and Spherical k-means for classifying and clustering emails into categories.
- **File system using Chord:** Implemented a file system using Chord (*a protocol for peer to peer distributed hash table*). Clients could read/write files which would be distributed(*stored*) across nodes in the system. The system was highly scalable and provided fast access ( $O(\log n)$ ) to the files.