

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 applications. Major contributions include:
 - * Design and development of storage expand and shrink feature.
 - * Containerization of applications and development of RESTful APIs for large scale application deployment across nodes in a cluster.
 - * Development of cluster-wide zero-downtime rolling update and rollback functionality for platform and application upgrade.
- Designed an innovative solution for testing containerized applications. The solution provides:
 - * ability to spin up multiple application instances in a sandbox environment using private IP addresses.
 - * 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 large scale heterogeneous trading databases; developed data transformation and statistical analysis packages for regulatory purposes.
- Maintained and enhanced Continuous integration (CI) and continuous delivery (CD) framework; practiced agile methodology for project deliveries.

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.