ROHAN SADALE

1700 N 1st St, Apt 320,
San Jose CA 95112

Phone: +1(612)404-4593 **Email**: sadal005@umn.edu
LinkedIn: linkedin.com/in/rohansadale

Education

University of Minnesota, Minneapolis, MN, USA September 2015 - June 2017
Master of Science, Data Science GPA: 3.793/4.000

College of Engineering (COEP), Pune, MH, India July 2008 - July 2012
Bachelor of Technology, Computer Engineering GPA: 7.99/10.00

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 contribution 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(logn))* to the files.