ROHAN SADALE

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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, Go, Shell, Ansible, Java, R, Perl, PL/SQL & Javascript
Databases: MongoDB, MySQL & Oracle 11g
Technologies/Frameworks: Containerization, Docker, Kubernetes, Unix, Storage Backup-Restore, REST, Jenkins, Distributed Systems, AWS, Hadoop, Spark & scikit-learn

Industry Experience

- **Veritas Technologies LLC**, Mountain View, CA, USA
  Software Engineer June 2017 - Present
  - Architected and developed Appliance Software Upgrade Management *(ASUM)* framework. *ASUM* is deployed in *Veritas Flex Appliance* and *Veritas Iris*. It provides:
    - ***zero-downtime rolling upgrade*** functionality for platform and the application upgrade
    - software management capabilities like uploading, deleting and validating packages using RESTful APIs
  - Designed an innovative solution for unit/integration testing of NetBackup containers. The solution provides:
    - ability to spin up multiple NetBackup instances in a sandbox environment using private IP address
    - ability to deploy a cloud instance locally using *Fake S3* and perform backup-restore testing
    - easy to add method for *container-based* unit tests including backup-recovery and upgrade
  - Key contributor in developing a multi-tenancy solution for *Flex Appliance*. *Flex Appliance* is a highly available and scalable solution that supports multiple instances of NetBackup services and large-scale deployments using *containers* and *Flexible Storage Sharing*. Main contributions include:
    - end to end design and development of storage resize (expand and shrink) feature
    - containerizing NetBackup application
- **Barclays**, Pune, MH, India
  Technology Analyst July 2012 - July 2015
  - Designed a streamlined Database-ETL system for generation of financial reports for APAC regulatory bodies
  - Implemented underlying Database architecture, data models and methods for data extraction from heterogeneous trading databases; developed data transformation and statistical analysis packages using Python
  - Maintained and enhanced batch framework using Perl and Shell scripting; delivered Functional specifications, Scope documents, Interface documents and data mapping documents
  - Practiced agile methodology for project deliveries; configured JIRA for the implementation

Academic/Personal Projects

- **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.
- **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.
- **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.
- **Web Scraping & Data Analysis:** Developed a web scrapper to extract restaurant information. It used a novel technique to locate restaurants using Google Maps & extract information using Yelp; performed exploratory data analysis and sentiment analysis on the user reviews to suggest quality improvements for restaurants.