

# JEET PATEL

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## EDUCATION

**Santa Clara University** | Masters in Computer Science & Engineering | GPA: 3.88/4.0

Sep '19 - Present

**Gujarat Technological University** | Bachelors in Computer Engineering | GPA: 3.79/4.0

Aug '12 - Jul '16

## TECHNICAL SKILLS

**Administration Exp.** Docker, Kubernetes, Python, RHEL7, Jenkins, Ansible, Github, JMeter, Google Cloud Platform (GCP), Apache Web Server, Linux Bash Shell Script, Powershell Scripting, Tomcat, Load Balancer, VPC, Firewall, VMware ESXi, Windows Server 2016, Thread Dumps, JVM Tuning for SOLR

**Development Exp** Java, Spring boot Microservices, Redis, maven, Oracle 12c, Alfresco, SOLR 4, REST

**Academic Courses** Distributed Systems, Computer Networks, Advanced Operating Systems, Data Structure & Algorithms

## WORK EXPERIENCE

### Enterprise Systems - Santa Clara University

Oct '19 - Present

#### Graduate Student Intern - Part Time

- Working with the Infrastructure and Virtualization department. My responsibilities include creation of new VMs and installation through VCenter on various ESXi Hosts, configuration and monitoring of Windows 2016 servers/ SLES Linux.
- Responsible for writing [Powershell](#)/ Linux Bash Scripts to automate the server provisioning workflow.

### Oracle Corporation

Mar '19 - Aug '19

#### Application Engineer

(6 months)

- Worked to improve the Jenkins delivery pipeline of the Human Capital Management (HCM) part of Oracle's ERP on Oracle cloud. Involved in communication with customers across North America & Europe region to solve deployment pipeline issues. Issues include work on VPC and firewall on Oracle Public cloud.

### Tata Consultancy Services

Aug '16 - Mar '19

#### Systems Engineer - Client : Sony Pictures Entertainment (SPE)

(2 years 7 months)

- Implemented Continuous Integration-Continuous Delivery (CI-CD) automation Pipeline with Docker, Github, Jenkins, Sonatype Nexus, Maven, AppDynamics and Vormetric encryption agents on Network Access Storage(NAS) storage.
- Responsible for administration (installation, patch and upgrade) of Alfresco and SOLR cluster. Developed Ansible playbook & bash shell script to install Apache httpd and Tomcat on RHEL7 and auto start of apache HTTP web server & Tomcat before/after patching. Knowledge of Cron expressions.
- Improved search latency of migrated documents by 21.47% over a period of 5 months by upgrading the SOLR from v4 to v6 and tuning JVM of SOLR servers. Carried out load testing using Apache JMeter.
- Developed a multi threaded Document Migration tool which includes Spring boot, Junit, Restful Services, JDBC, Oracle 12c, JVM monitoring and Thread Dumps. Focussed on QoS parameters like Migration, Search Latency, Local Characters, File encryption, Migration Health and multi VM monitoring. Developed migration validation services.

**Awards :** "Walk the Talk" by Sony Pictures (2x) | "On the Spot" by TCS (4x) | "Star Performer" by SPE-TCS | "Star of the Month" by TCS

## INDIVIDUAL PROJECTS

### Distributed Auto Suggester- Trie (Redis, Docker, Cache design, Trie, Apache Zookeeper, Distributed Systems, HA Proxy)

- Designing and developing word auto suggester backend system. Implemented trie Data Structure. Distributed it into multiple shards for faster access. Used Redis in Docker container to implement the cache. Whole application is developed with Spring boot over Restful Services. Implementing HA proxy and Apache zookeeper to make requests distributed and load balanced over instances.

### IMDB- Microservices (Kubernetes, Docker, Spring Boot, Eureka for API Discovery, Swagger, Fault Tolerance , Github)

- Developing an application of Movie ratings services to understand and implement the microservices based architecture.
- Implemented microservice discovery with Spring Cloud Eureka, added documentation with Swagger and Tested with JMeter. Implementing Fault Tolerance with Hystrix. Containerized with Docker and Orchestration with Kubernetes is implemented and deployed on GCP- Google Kubernetes Engine(GKE). Planning to implement log monitoring with ELK Stack.

[Alfresco Cluster Script](#) | [Linux/Windows Server Monitoring](#) | [Technoaspire](#) | [SRISTI-Child creativity website](#)

[Multithreaded Web Server](#) | [Distributed Hash Table - Chord](#)

[Certificates and Achievements](#)