SUDHARCHITH SONTY

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EXPERIENCE

VERITAS TECHNOLOGIES LLC **SOFTWARE ENGINEER** **DEC 2018 – CURRENT**

- Engineered and developed the Veritas Optimized Operating System (VxOS) based on RedHat 7.x. Developed feature updates for the VxOS SDK. (Python, Bash, Docker, Ansible).
- Developed REST/FTP based APIs, as part of a Standalone Firmware Update and Recovery Environment that allowed users to Update/Rollback individual device firmware. (Python, Bash, Docker)
- Developed REST based plugins and APIs that interact with various hardware components of the appliances and provide the necessary information. (Python, Java, MongoDB)
- Working on continuous integration pipelines responsible for performance, regression, and functionality testing of production deployment VxOS versions. (Jenkins, Robot).

LASTLINE INC (VMWARE) **SOFTWARE ENGINEER** **OCT 2017 – AUG 2018**

- Developed REST based APIs using that would allow for indexing of new kinds of threats and threat indicators. (Python)
- Worked on a feature update that enabled continuous indexing of the most malicious websites every day. The ratings would be updated for existing entries each day and a new list would be sent out. (Python, Cassandra, Elasticsearch)

HEALTHEDGE SOFTWARE **ENGINEERING INTERN** **AUG 2017 – OCT 2017**

- Worked on migration of the Health Edge client software from a Java Swing based client to a Javascript based one. (Javascript)
- Wrote and monitored load and performance tests using Jmeter and JProfiler.

COGNIZANT TECHONOLOGY SOLUTIONS **PROGRAMMER ANALYST** **JUL 2014 – JUN 2015**

- Handled the online banking services backend for a large American financial services firm.
- Developed and maintained Java based APIs to handle online transactions.

EDUCATION

University at Buffalo (SUNY)	M.S in Computer Science	August 2015 - June 2017
Osmania University	B.E in Information Technology	October 2010 – June 2014

SKILLS

LANGUAGES: PYTHON, JAVA, SQL, CASSANDRA, MONGODB, BASH
DATABASES: SQL, CASSANDRA, ELASTICSEARCH, MONGODB
FRAMEWORKS: JENKINS, DOCKER, JUNIT, PYTEST, REST, ANSIBLE, GIT, AWS

PROJECTS

Standalone Firmware Update and Recovery Environment (SURE), *Veritas Technologies LLC*, (Python, Docker, Bash)

- **URL:** https://www.veritas.com/content/support/en_US/downloads/update.UPD966809
- Developed REST/FTP, Python based APIs for detecting and updating storage controllers, raid controllers and the BIOS.
- Wrote the Unit testing suite for SURE using the Python unit test libraries.
- Worked on creating and deploying the SURE docker container.

Feature update – Yum Repository Snapshot, *Veritas Technologies LLC*, (Python, Ansible, Docker, Yum)

- Developed a feature for the SDK that would allow users to create a snapshot of existing Red Hat software repositories, as well as other third-party repositories.
- The snapshot freezes all packages contained within the repository along with their specific versions.
- Each Red Hat Enterprise Linux RPM software package contained in the repository could also be updated/removed or completely purged from the repository

Multi-Lingual Twitter Data Search and Retrieval; Semester 1, *University at Buffalo*, (Java, Apache, SOLR)

- Created a Search Engine based around multi-lingual twitter data. (About 1 GB of data collected over a month using the Twitter 4J API). Implemented scoring models like VSM, BM25 on the data.
- Incorporated the SOLR framework for indexing and filtering the tweets.
- Worked on search engine optimization, sentiment analysis, content tagging and multilingual querying.

Data Warehousing and OLAP Operations; Semester 3, *University at Buffalo*, (Java, Python, Hadoop)

- Implemented a Data Warehouse for clinical and genomic data based on the Bio Star Schema that supports regular and statistical OLAP Operations. Wrote several clustering algorithms in Python.
- Performed K-means clustering on a single node Hadoop Map Reduce cluster using Java and implemented several classification algorithms such as, K-NN, Decision Tree, etc.