Apurwa Jadhav

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Experience

SOFTWARE ENGINEER | HEWLETT PACKARD ENTERPRISE | MAY 2021 – PRESENT

- Designing a Kubernetes operator for deploying and managing Spark components such as Livy server, History Server, Hive metastore, etc.
- Implemented LDAP client-side communication inside admission webhook for authenticating spark application users.
- Developed helm charts for creating configmaps, RBACs, statefulsets, persistent volume claims, etc. for custom operator and custom admission webhooks.
- Design and develop custom webhook for adding custom labels and user context inside Kubernetes applications.

SOFTWARE ENGINEER INTERN | HEWLETT PACKARD ENTERPRISE | JUN 2020 - SEP 2020

- Implemented the feature of pre-downloading of container images for Kubernetes cluster resulting in 20X faster upgrade process.
- Added Kubernetes operator unit test framework for Dataplatform component of project Picasso - Kubernetes version of MapR platform.

MEMBER OF TECHNICAL STAFF | RYUSSI TECHNOLOGIES | MAY 2016 - AUG 2019

- Implemented Leasing – a type of client-side caching that minimized the network calls by more than 50% and allowed multiple clients to cache the files simultaneously.
- Designed & developed file system agnostic interface over SMB to enable support for distributed file systems like MapR FS, Luster FS, Ceph FS which led to a 70% increase in target customers.
- Eliminated single point of failure by spawning SMB server in cluster mode using Apache Zookeeper which led to 99% high availability.
- Developed SMB stack interface for enterprise object store, making retrieval of files 2X faster than a file system.
- Accomplished the implementation of all VFS (Virtual File System) calls over object store using C bindings of XDI (extensible Data Interchange) interface.

Education

MS IN COMPUTER SCIENCE | 2021 | SANTA CLARA UNIVERSTY, CALIFORNIA
BS IN COMPUTER SCIENCE | 2014 | PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE

Technical Skills

- Languages**: Go, C, Java, C++, Bash**
- Technologies**: Kubernetes, Docker, Helm, LDAP, Spark, GCP, AWS, Hadoop, Object store, Distributed Systems, Apache Zookeeper, MySQL, SMB, NAS.**
- Tools**: Kubectl, YAML, Vim, Git, Linux, Valgrind, GDB, Wireshark**

Personal Projects

APARTMENT RENT TRACKER | PYTHON, AWS LAMBDA, AWS CLOUDWATCH

- Developed script to extract and track rent prices/availability in Bay Area using AWS Lambda. These metrics get pushed to CloudWatch to learn rent change pattern. Email is sent whenever rent prices change so that potential renters can make quick decisions.
- Optimized this solution to lower the infrastructure cost to <$10 per month.

CHORD IMPLEMENTATION | JAVA

- Implemented distributed, scalable, fault tolerant and consistent peer to peer chord algorithm serving lookup in O (log N) time.