

KAILASH YADAV

+91 8688007472 | KAILASHYADAV1377@GMAIL.COM

[LINKEDIN](#) | [PORTFOLIO](#) | [GITHUB](#)

PROFILE

Python developer with expertise in designing, developing, and maintaining software applications. Strong understanding of software development principles and a passion for creating efficient and scalable code. Proficient in various Python frameworks and libraries, with experience in distributed systems and Storage domains. Effective problem-solver, collaborator, and quick learner, dedicated to delivering quality.

EDUCATION

Bachelor of Technology in Electronics and Communications, GPA 7.3, graduated in year 2017.
Institute of Aeronautical Engineering, Hyderabad, India.

EXPERIENCE

I am associated with Msys Technologies as a Senior Software Engineer with over 5 years of software development experience predominantly developing utilities, libraries and Frameworks in distributed systems and storage domain. I have gained valuable work experience with renowned clients such as Microsoft, Cisco, Seagate and PureStorage.

Pure Storage Migration Project, Msys technologies

Oct 2022 - Present

Migration of PureStorage source code from python2.x, 3.x to python3.10 and maintaining backward compatibility too.

- Migrated the product to python3.10 from lower versions >> python 3.5
- Worked with various python frameworks and modules such as Asyncio, Aiohttp

Seagate CORTX, Msys technologies

Aug 2021 - Sep 2022

CORTX is an Open Source distributed object storage system designed for great efficiency, massive capacity, and high storage-utilisation. [Cortx](#)

- Developed a Central Config Vault Framework on the basis of fundamental key value format
- Developed a utility for Task/Activity Monitoring and Progress Tracker
- Implemented a library for Semaphore locks in distributed system
- Implemented a library for version compatibility check for upgrade/downgrade
- Designed and Developed a Version history backup system of Central Config
- Designed and Developed a fault tolerant Orchestration Platform to launch docker containerised micro services in Kubernetes Pods and perform operations such as seamless restarts, seamless upgrade and downgrade.
- Implemented a secure secret encryption and decryption system using Kubernetes secrets and python.

Cisco Redfish API Integration, Mindtree

Jul 2019 - Aug 2021

The project deals with API Integration of various components involved in Remote Server Management and Cloud Management Software as a Service.

- Integrated REST API based Redfish SDK for Servers to perform CRUD operations and achieve remote server management with ease. [Redfish](#)

Microsoft Cloud Server Infrastructure, Mindtree

Feb 2018 - Jun 2019

This is a project for uninterrupted sustenance and maintenance of Microsoft cloud Infrastructure.

- Developed tools and utilities for Server Monitoring, Log analytics and Metric Collection for Microsoft Cloud Servers

- I successfully eliminated the dependency on Microsoft SQL Server Database for data and statistics by seamlessly integrating Azure DevOps Services API.

SKILLS

Python

Concurrent Programming with Asyncio
 Migration experience from version 3.5 to version 3.10
 Data Structures and Algorithms
 OOPs concepts and design patterns (proxy, factory, decorators...)

Microservices

REST API, Docker, Kubernetes, Consul, RPC

System Design

Common config store in with Consul
 Semaphore resource locking/unlocking mechanism
 Activity/Task monitoring in the system
 Version compatibility check for upgrade/downgrade
 Security key encryption and decryption

Architecture

Developed POCs with research for upcoming features
 Designed HLD and LLD of a feature

Storage

Infrastructure as a Service
 Object based Storage Software
 Storage Area Network, SAN
 Direct Attached Storage, DAS
 Lab experience with storage hardware
 Redfish API

Others

Linux (RHEL, Ubuntu), bash scripting
 Windows Server, RDOS, RDMOS
 Git, Github, Bitbucket
 Jira, Confluence
 Jenkins

CERTIFICATIONS

- [DataStructures](#) University of Michigan
- [Algorithms](#) University of California San Diego
- [Secure_Application_Development](#) Security Innovation

ACCOLADES

- Best Performer for 3 consecutive years with Mindtree Limited
- Customer Delight Award, Seagate, with Msys Technologies
- Pat on Back Award, PureStorage, with Msys Technologies
- Received Peer and Manager Awards