

Santosh Kumar Mishra

Member of Technical Staff

4+ years of industry experience in C, C++, Linux, Python, Distributed System, Data Structure, OS Internals, Storage Technology, System Design, etc. Looking for more challenging jobs.



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05 January 1993 📅

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WORK EXPERIENCE

Member of Technical Staff II VMware Software India Pvt Ltd

02/2018 - Present

Achievements/Tasks

- Working in vSAN (Distributed Object Store) team.
- Developed and making enhancements in a couple of features of the CLOM(Cluster level Object Manager) module, it manages the placement and migration of objects(vmdk) and distributes components across the host in the vSAN cluster.
- Worked on the design and implementation of the rebalancing feature, It used to evenly distribute resources across the cluster.
- Worked on the design and implementation of the delta component feature.
- Involved in the development of the vSAN checker tool, it uses to collect the metadata from disks in vsan ds.
- Implement in-memory logging features in userspace demons process.
- Worked on a couple of customers escalation and fixes customers and internal bugs.
- Developed a checker tool that catches and generates a report of all the offensive/racial terminology uses in the user changeset at the time code reviews.
- Developed and make enhancement in a couple of debugging tools that help to triaged bugs faster.

Software Engineer Teradata R&D Labs

07/2016 - 01/2018

Achievements/Tasks

- Enhancements in the Parallel Database extension module, it is a middle layer taking care of communications between OS and database application.
- Worked on module taking care of monitoring and reporting errors in the system memory.
- Worked on resolving the memory leaks in database processes using the Valgrind tool.
- Making enhancements in multiple Teradata tools.

Software Engineer Intern Teradata R&D Labs

01/2016 - 07/2016

Achievements/Tasks

- Developed GUI to automate testing in distributed enviro.

EDUCATION

Master of Computer Applications (MCA) National Institute of Technology(NIT) Trichy

07/2013 - 07/2016

7.72

SKILLS

Data Structure & Algorithms

C

C++

Python

Distributed System

System Design

GDB Tool

vSAN

Linux

Core Java

Storage Technology

Shell Script

Valgrind

vShpere

OS Internals

Multi Threading

System Programming

ACHIEVEMENTS

Secured First Position in Adv. Crazy Programming

Secured First Position in Advanced Crazy Programming, Adventure, Pragyan - 2015 (International ISO 9001:2008 certified Techno-Management Festival Organized by NIT Trichy)

Secured First Position ACM Coding Contest

Secured First Position in Coding contest in Infotrek -2015 Organized by ACM NIT Trichy.

Secured AIR 4th Rank IIT BHU MCA Entrance Exam

Secured AIR 4th Rank in IIT Banaras Hindu University(BHU) All India MCA Entrance Examination - 2013

PERSONAL PROJECTS

NIT Trichy Offline Navigator (C# / MS Access)

- This Project aims to provide assistance at finding location in NIT Trichy. It serves as Google offline Map to find the shortest path between any two locations as well as several information about that location.

Policy based Cloning of Directory Structure (C++)

- A set of policies are defined for comparison and copying of files in the master and cloned directory. Comparison based on time stamp, file content were the policies defined. Policies for copying included copying using Unix cp command and performing low level read and write.

Simulation of C++ STL Library (C++)

- The aims of this project to developed generic containers and algorithms for C++. It is implemented C++ features template class and function, virtual function etc. It is extension of STL C++ including Graph and several other algorithms.

CERTIFICATES

VMware Certified Professional 6.5 - Data Center Virtualization certificate (08/2018 - Present)

Teradata Basic Certification (10/2016 - Present) 📄

INTERESTS

Competitive Coding

Playing Carrom

Music