Pooja U Tata

IT Engineer at Cisco

Experience

Engineer.IT Engineering at Cisco
August 2016 - Present (8 months)

Intern at Center for Cloud Computing and Big Data
June 2014 - October 2016 (2 years 5 months)

Intern IT Engineer at Cisco
January 2016 - June 2016 (6 months)

Member Technical Staff at Ordell Ugo
August 2013 - May 2016 (2 years 10 months)

Summer Intern at EMC
June 2015 - July 2015 (2 months)

Skills & Expertise

C
Java
Python
C++
Data Structures
Algorithms
Databases
Programming
MySQL
MongoDB
JavaScript
HTML
Linux
Android SDK
Microsoft Office
SQL
PHP
HTML5
Microsoft Word
PowerPoint
Android Development

Android
jQuery
Computer Networking

Education

PESIT
Bachelor of Engineering (BE), Computer Science Engineering, 2012 - 2016

Presidency School ICSE
Schooling, 2010
Activities and Societies: School President,Debating,Cultural and art team.

Projects

Dynamic Memory management System
August 2014 to Present
Members:Pooja U Tata, Shilpa Bhagavath, Shibani S

Demonstration of memory allocation techniques like First fit, Best fit and Next fit.
Dynamic implementation.
Front End: Python- Tkinter (Animation)
Back End: Python-list is used as back-end data structure.

Quality Of Service Analysis of Greenplum on Openstack
January 2015 to Present
Members:Pooja U Tata, Shivam Dhar

The rapid growth of today's data volumes and sources exceed that which a single, large computer could handle alone. Parallel processing across multiple computers has become a viable design for large-scale analytic processing and data warehousing. Greenplum's core shared-nothing massively parallel processing (MPP) architecture is designed for Big Data Analytics with linear scaling and high availability.
Adaptive services provide worldwide enterprises with high availability, workload management, and online expansion of capacity.
Line of action:
Understanding the architecture, working, structure, query semantics and operation of the GreenPlum database.
Studying the role and need of every element in the GPDB system i.e Master, Segments, Inter-Connect, and the processes that are spawned during the query planning and dispatch. Understanding the concept of mirroring, failover to backup master and recovery, configuration environments.
QOS framework:
Quality of Service defined for the performance analysis of greenplum database is in terms of throughput i.e number of queries executed per second and response time i.e the difference between the time when query is dispatched and when the results are got.
The QOS framework consists of three parts: measuring, inferring and taking some action based on the inference. Measuring i.e collecting stats from the queries executed on greenplum like user cpu time, memory

used, system cpu time and disk utilization, forms a part of input requirements for the QOS framework (data collectors/monitoring agents), which is done from GPDB command center.

Based on data collected, graphs were plotted to generate thresholds, leading to scalable instances (as action scripts written would be executed for the openstack instance changing its flavor eg from medium to large).

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Contact Pooja on LinkedIn