**Sangaraju Charitha**

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**Career Objective:**

To seek a challenging assignment in the field of software which provides me ample opportunities for self development and helps me in achieving personal and organizational goals.

**Work Experience:**

1. **Dell EMC, Bangalore, India**

**July 2018 – till date**

**Role :** Software Engineer II

**Product :** Storage Center

**Language :** C++

**Technologies :** Storage Area Network (SAN)

**Tools :** Source Insight, Eclipse, Visual Studio

**Responsibilities :**

* Working on developing and improving LDAP authentication module of Storage Center Operating System for the Active Directory server to authenticate user and computer accounts on behalf of Storage Center.
* Working on Virtualization specifically PITC module which would create snapshots of the volumes, containing the user data mapping and which would actually serve the I/O requests to the host.

1. **Infosys Limited, Bangalore, India**

**Duration :** January 2015 - July 2016

**Role :** Systems Engineer

**Training :** Have been trained in Java Technology as part of Infosys training from January 2015 to May 2015.

**Project :** Regulatory Operations

**Client :** Goldman Sachs

**Description :** Develop and update the position reports according to the client requirements using Java Technology.

**Technologies :** Java

**Tools :** Aqua Data Studio, Ocean GUI, GS Eclipse

**Responsibilities :**

* Developing the position reports as per requirements.
* Running the report and testing the changes in the local machine.
* Deploying the changes into SVN code repository.
* Analysing the logs in case of build failures.

**Academic Profile:**

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| --- | --- | --- | --- | --- |
| **Course** | **Board/University** | **Institution** | **Year of Passing** | **Performance** |
| M.Tech  (CSE) | National Institute of Technology,Karnataka. | National Institute of Technology,Karnataka | 2018 | 8.39 / 10 |
| B. Tech  (CSE) | Sri Venkateswara University College of Engineering, Tirupati. | Sri Venkateswara University College of Engineering, Tirupati | 2014 | 8.16 / 10 |
| Intermediate (MPC) | Board of Intermediate Education,  Andhra Pradesh. | Sri Chaitanya Academy Junior College,  Tirupati. | 2010 | 97.1% |
| SSC | Board of Secondary Education,  Andhra Pradesh. | Sri Chaitanya Children’s Academy, Tirupati. | 2008 | 90.33% |

**Technical Proficiency:**

* **Languages** : C, Java, C++, SQL, Python
* **Cloud Computing Services** : Azure Data Factory, Azure Databricks, Azure Data Lake, Azure Synapse Analytics, Azure Stream Analytics (basics), Data Monitoring solutions (basics)
* **Web Technologies** : HTML, CSS, Java Script, Angular JS (basic)
* **Application Software** : ns-3, MATLAB(basic)
* **Operating Systems** : Windows, Linux
* **Version Control Software** : Git
* **Tools/Frameworks** : Eclipse, JDBC, Servlets, JSP, JSF, SQLplus, Visual C++
* **Areas of Interest** : Cloud Computing Technologies, Machine Learning, Data Structures, Databases, Networks.

**Academic Projects:**

* **Implementation of Tcp Low Priority in ns-3:**

Tcp Low Priority is a Tcp variant for low priority data transfer in which the low priority data utilises only the excess bandwidth.

* **Implementation of Load/Delay Controller in ns-3:**

Load/Delay Controllers are a class of Active Queue Management Algorithms which take into account both the load factor (ratio of packet arrival rate to the packet drain rate) and the queuing delay metric for drop probability calculation.

* **Implementation of AOMDV routing protocol in ns-3:(Ongoing)**

Currently working on this project on AOMDV routing protocol in ns-3. Ad hoc On-Demand Multipath Distance Vector is a routing protocol which computes multiple paths from a source to a destination during route discovery phase. It is designed for highly dynamic ad hoc networks.

* **Implementation of Modified Decision Based Median Filter for Impulse Noise Removal:**

Median Filter is used to remove noise from corrupted images. This project implemented a modified median filter which gave better performance compared to basic median filter and extended by implementing a non local median filter based on the concept of non local means.

* **Predicting Relevant News Events for Timeline Summaries using Supervised Machine Learning Technique:**

Built an automated text summarizer for generating timeline summaries of news articles using SVM and Linear Regression

**Certifications:**

* Certified with Microsoft DP-200 : Implementing an Azure Data Solution
* Pursued Java Certification internal to Infosys.
* Pursued Database Certification internal to Infosys.

**Achievements:**

* High Performer in Java stream training at Infosys Mysore.
* Received Most Valuable Player (MVP) award in Infosys for my contribution towards the project - Regulatory Operations.

**Co-Curricular Activities:**

* Volunteered in the 7th Workshop on Open-source Network Experimentation (ONE - 2017) held at NITK in June 2017.
* Organized and participated in the events of RHAPSODY 2K13**.**
* One of the active organizers and participants of ACEactivities in BTech.

**Personal Details:**

* Name : Sangaraju Charitha
* Gender : Female
* Date of Birth : 29th January, 1993
* Hobbies : Playing Badminton, Listening to music
* Languages known : English, Hindi, Telugu
* Strengths : Organizational Skills, Loyalty, Determination

**Links:**

* Github : [//CharithaS](https://github.com/CharithaS)
* LinkedIn: [//charitha-sangaraju](https://www.linkedin.com/in/charitha-sangaraju-16043286/)