**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. **Virtusa Consulting Services Pvt., Ltd., Bangalore, India**

**November 2022 – Till Date**

**Designation :** Senior Consultant

**Role :** Pega Developer

**Client :** Centene Corporation

**Technologies :** Pega Case Management, REST API

**Tools :** Pega Dev Studio, SQL Developer, Postman, Jira

**Responsibilities :**

* Designed and developed the front-end using Sections, Dynamic layouts, Repeating layouts, Embedded Sections and different controls.
* Responsible for Implementation of Decision Tables, Decision Trees and Declarative expressions
* Created Activities and Data Transforms for implementing core Business logic.
* Worked on implementing Report Definitions for fetching required data from the DB to display on the UI

1. **Virtusa Consulting Services Pvt., Ltd., Bangalore, India**

**September 2021 – November 2022**

**Designation :** Senior Consultant

**Role :** Java Backend Developer

**Client :** Clarivate

**Technologies :** Java, MicroServices, Spring Boot, REST API, SQL

**Tools :** Eclipse, SQL Developer, Postman, Jira

**Responsibilities :**

* Design and development of Microservices using Java, Spring Boot, REST API
* Used Annotations for Spring DI, Auto wiring and Spring MVC for REST APIs and Spring Boot for Microservices.
* Implemented Controller, Service and Repository modules of spring boot specific to the business requirements
* Used version control Git and JIRA for tracking work in agile workplace.
* Developed test classes in JUnit and used Mockito for unit testing.

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

**October 2020 – September 2021**

**Designation :** Software Engineer II

**Role :** Java Backend Developer

**Product :** PowerFlex

**Technologies :** Java8,Microservices, Spring Boot, REST API, Storage Area Network

**Tools :** Eclipse, SQL Developer, Postman, Jira, Docker, Kubernetes, Swagger

**Responsibilities :**

* Worked as a backend developer in implementation of Microservices using Spring Boot framework, REST API and document it using swagger.
* Developed CRUD REST API using POST, GET, PUT and DELETE methods.
* Used version control Git and JIRA for tracking work in agile workplace.
* Deployed Spring Boot based micro services into Docker container using Amazon EC2 container services.
* Developed test classes in JUnit and used Mockito for unit testing.

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

**July 2018 – October 2020**

**Designation :** Software Engineer II

**Role :** C++ Developer

**Product :** Storage Center

**Technologies :** C++,Storage Area Network (SAN)

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

**Responsibilities :**

* Worked 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.
* Worked on Virtualization specifically PITC module which would create snapshots of the volumes from which data can be restored in case of any failover and also on the stats of the volumes that can be fetched at any point of time.

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

**January 2015 - July 2016**

**Designation :** Systems Engineer

**Role :** Java Developer

**Client :** Goldman Sachs

**Technologies :** Java

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

**Responsibilities :**

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

| **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:**

* Technologies : C, Java, C++, Pega, SQL, Python
* 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, Pega Dev Studio, Visual C++, SQL Developer, Postman, Swagger, Docker
* Areas of Interest : 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:**

* Pega Certified System Architect (CSA)
* 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, Determination, Time Management

**Links:**

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