Ashray Bharambe

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Education

DAIICT, Gandhinagar, India Bachelor of Technology CGPA: 7.38

Experience

HSBC Pune Software Engineer July 2019 - Present

I work on HSBC control-plane team designing and developing APIs for securely managing and retrieving customer data. The APIs were built using microservices architecture and the mulesoft framework provided by Salesforce.

General Electric - Digital Bangalore SDE Intern May 2018 - July 2018

Built an intelligent proactive model for predictive analysis which provided insights on aircraft engine parts using regression methods. This model resulted in increasing the efficiency of the inspection process and also making it cost effective.

Projects

Research Paper Publication - UC2Map *UseCasesToUseCaseMaps*

Symposium on Applied Computing 2020 The35th ACM/SIGAPP

Many times developers start with a high-level description of a use case which is then used in place of a more formal requirement. However, such a description fails to provide rich details that are typically part of a more structured use case. Having a varied level of details and degree of formalism among use cases, it is often difficult to comprehend and visualize functional dependencies among each of them in detail. Use Case Map (UCM) elaborates such dependencies in terms of relationships and responsibilities, and act as a bridge between specifications and design artifacts.

Parallel Merge Sort *https://github.com/ashraybharambe/Parallel-Merge-Sort*

Implemented multithreaded merge sort, in java, resulting in an efficient sorting algorithm. Analyzed the behaviour on varying the number of threads. It was observed that multithreaded merge sort is significantly more efficient than single thread merge sort. However, the efficiency degrades if the number of threads is increased beyond a certain threshold.

Sudoku *https://github.com/ashraybharambe/Sudoku*

Built a basic Sudoku solver which can take input from a file, solves the sudoku using trial & error method and prints a solution to the sudoku puzzle.The sudoku project is built in a very modular manner allowing plugging of various input and output mechanisms.

Skills

Java	Python	Spring framework	PostgreSQL	MongoDB	SVC (Github)	MySQL
C/C++	Bash, Linux	AWS Cloud	Microservices	Jenkins	Maven	REST APIs