

Pardhu Vavila



Contact

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Certifications

Java & Angular

- PlularSight, 2018

Full stack Developer

- Stackroute – NIIT, 2017

Machine Learning with Big Data

– Coursera – UC San Diego, 2016

Skills

Java

Scala

Spring

Angular

Spark

JavaScript

OOP

SQL

Algorithms and Data
Structures

Redis

ActiveMQ

System Design

Education

Bachelor of Technology: **OE & NA** - 2017

Indian Institute of Technology (IIT), Kharagpur

Master of Science: **Computer Science** – JAN, 2022(Expected)

University at Buffalo, Buffalo

Graduate Projects

Parallel Graph Algorithm for Solving Capacitated Vehicle Routing Problem

Developed a parallel algorithm by adopting branch-cut -and-price algorithm to the *map-reduce* paradigm of *spark*. Significantly reduced the runtime for several instances of capacitated vehicle routing problem.

Real Time Embeddable Reporting Server with Dynamic Report Configuration

Developed a server-based report generating software system for an *industrial partner* that can be plugged into any website with minimal effort while being able to dynamically update/add/delete report configurations without any downtime. The software also facilitates data analytics with support for custom flows.

Experience

Software Engineering Specialist - 12/2018 to 1/2021

GE Digital, Bangalore

- Designed and Developed a library for various microservices to port cross tenant functionalities and support with minimal extra effort.
- Designed and Developed a scheduling microservice by leveraging the ActiveMQ's internal scheduler
- Developed Redis cache reconciliation mechanism amongst various microservices.
- Developed performance testing suits using Locust in Python.
- Developed high throughput system as an asynchronous abstraction to HTTP endpoints using ActiveMQ.
- Worked as a security champion to ensure compliance through SAST, DAST and Pentest procedures.

Associate Software Engineer - 08/2017 to 10/2018

CGI, Bangalore

- Developed a project from end-end to bridge the existing gap between the current solution and mobile technologies.
- Developed project's low-level design concepts and maintained optimal workflow for the project.
- Complete detailed programming and development tasks for front end public and internal websites as well as challenging back-end server code.