

Pardhu Vavila

University at Buffalo | GE Digital | IIT, Kharagpur

Education

University at Buffalo, State University of New York
M.S in Computer Science

JAN 2021 - MAY 2022

Indian Institute of Technology (IIT), Kharagpur
B.Tech. in Ocean Engineering and Naval Architecture

JUL 2013 - MAY 2017

Graduate Project

Parallel Graph Algorithm for Solving Capacitated Vehicle Routing Problem

- Developed a parallel algorithm by adopting branch-cut-and-price algorithm for *map-reduce* paradigm of *Apache Spark*.
- Significantly reduced the runtime for several instances of CVRP.

Technologies: Pyomo, Google OR Tools, Gurobi, Python, Apache Spark

Experience

Intern, Ignition Digital Transformation

JUN 2021 - AUG 2021

KPMG US, Chicago

- Designed and developed POC's for low code apps/workflows using Microsoft power suite for integrations between SharePoint, Outlook, Teams and internal api's.
- Developed a no-code chatbot as an add-on for Microsoft Teams to interact with SharePoint workflows.

Technologies: Power Apps, Power Automate, Azure, Microsoft Teams, SharePoint, Power Virtual Agents

Software Engineering Specialist

DEC 2018 - JAN 2021

GE Digital, Bangalore

- Designed and developed a java library for various Spring Boot microservices to port cross tenant functionalities and replace existing mechanism, improving maintainability and significantly reducing defects.
- Designed and developed a scheduling Spring boot microservice by leveraging ActiveMQ's internal scheduler to replace Quartz scheduler and thereby decreasing database calls of the system by 10%.
- Lead a team of five as a security champion to build pipelines and ensure compliance through SAST, DAST and pen-test procedures for 11 java microservices and angular microapps.
- Developed Redis cache reconciliation mechanism amongst various spring boot microservices and brought down the maximum time for data reconciliation from 30 minutes to 5 minutes.

Technologies: Spring Boot, Postgres, Hibernate, QueryDSL, Redis, ActiveMQ, RabbitMQ, Angular 8, Locust, Docker, Cloud Foundry

Associate Software Engineer

AUG 2017 - OCT 2018

CGI, Bangalore

- Migrated legacy api's endpoints to new Java Service using Apache CXF as JAX-RS provider with performance improvements in latencies by up-to 200%. Implemented JWT based OAuth2 Authentication.
- Received intensive training for Full Stack Java Developer. Hands on with Spring Boot and Angular4.

Technologies: Java, MySQL, MongoDB, Cassandra, Angular4, Apache Kafka

Skills

Java

Spring

Angular

SQL

Typescript

Solr

Postgres

Algorithms

System Design

Information Retrieval



saicharanpardhu.github.io



/in/pardhuv



saicharanpardhu@gmail.com



(716)715 0296