

# Sahith Anusuri

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## EDUCATION EXPERIENCE

### The University of Texas at Dallas

Aug 2021 – May 2023

*Master of Science, Computer Science*

*Coursework: Machine Learning, Artificial Intelligence, Web Technologies, Database Design, Operating Systems, Big Data Analytics, Object Oriented Analysis.*

### National Institute of Technology Hamirpur

Aug 2016 - May 2020

*Bachelor of Technology, Electronics & Communication*

*Coursework: Data Structures, Digital Electronics, Microprocessor Theory, Quality Engineering, Computer Graphics, Industrial Electronics, Computer Networks.*

## PROFESSIONAL EXPERIENCE

### JP Morgan Chase Virtual Internship

Jun 2022 – July 2022

*SDE Intern*

- Analyzed stock price data in real time, developed stock monitoring functionality to trader's dashboard with UI&UX considerations after setting up local environment with all dependencies like NVM, NPM, visual studio, python, and git. Performed unit testing, pipelined data to JPMC Perspective Tool and implemented data visualization features with the help of React, typescript.

### University of Texas at Dallas

Jan 2022 – Present

*Teaching Assistant*

- Led student teams in mentoring Machine Learning projects in ML Hackathons. Instructed coding for boot camps of Data Structures for MNC's, Python ,C++, Debugging to 100+ participants.

## ACADEMIC PROJECT EXPERIENCE

### Nine-Men Morris Variant Game, AI Game Tree Application

- Executed a simulation game of Nine-Men Morris with computer AI based on minmax algorithm in python, enhancing efficacy of algorithm by more than 90% using Alpha-Beta pruning. Projected moves using depth of the tree and optimized static estimation function.

### Spark Streaming with Twitter and Kafka - PySpark, Apache Kafka, Elasticsearch, Kibana and Logstash

- Devised PySpark application to read tweets in real-time, evaluated sentiment and send to Apache Kafka. Developed pipeline using Elastic search and Kibana to read data from Kafka and set up sentiment visualization using Logstash. The sentiment result for the keyword 'Covid-19' is categorized as Positive 84%, Negative 16%.

### API Development for Rental Car Enterprise

- Built end to end Rest API service by using NodeJS for creating server, stored the data in MongoDB database, used Postman for testing the application and added user authorization.
- Deployed API application on AWS EC2 server with letsencrypt https configuration.

### Modified V6 Unix File System Implementation, Linux

- Created V6 file system by utilizing system function calls in C.
- Generated command-line interface that allows Unix users access to the file system of a foreign operating system.

### JavaScript Sorting

- Performed animation sorting skills core functions in Data Structures & Algorithms ( Bubble, Insertion, Merge sorting algorithms) using JavaScript with Document Object Model Manipulation, Event Listeners and Timer techniques.
- Devised scalable architectural approach to efficiently code, debug, simple to maintain, and perform code review.

### Supply Chain Route Optimization - Java

- Designed a command-line program using Kruskal's Minimum Spanning Tree algorithm and enhanced the performance by reducing time complexity using Priority Queue & Disjoint Sets Data structures.

## CERTIFICATIONS AND TECHNICAL SKILL EXPERIENCE

Software Tools: Hadoop, Spark, Node, Postman, Git, GitHub, AWS Components (EC2, Lambda, S3, EMR).

Programming: Python, Java, C++, PySpark, C, JavaScript, PHP, HTML, CSS, SQL.

Databases: MongoDB, MySQL, Oracle, Hive, HBase, Cassandra.