

SKILLS

Programming Languages: C++, Java, Python, SQL, HTML, CSS, JavaScript
Technical Tools: Git, GitHub, UNIX, Linux Command-Line, Node.js
Databases: OracleDB, MySQL, MongoDB, Pandas Python
Relevant Coursework: Algorithms, Data Structures, Database Management, Computer Networks, Machine Learning

EDUCATION

Master of Science, Computer Science, University of Florida, GPA: 3.73/4.00 Jan 2021 — May 2022
Senior Certification Programme, Computer Science, University of Florida, GPA: 3.58/4.00 Jan 2020 — May 2020
Bachelor of Technology, Computer Science and Engineering, Amity University August 2016 — May 2020

WORK EXPERIENCE

Software Developer Intern May 2019 — July 2019
ENAAAR Financial Corp Delhi, India

- Worked on technologies like SQL to build relevant queries and used Python data libraries to pre-process and clean data tables.
- Used Python libraries like Matplotlib and Seaborn to create charts and plots to better understand data and correlation between columns.
- Built a Python script that takes raw-data as input and outputs a clean, ready to use CSV data frame that saved time for the employees.

PROJECTS

P2P File Sharing Jan 2021 — April 2021

- A terminal based remote Peer-to-Peer file sharing program based on BitTorrent protocols.
- Features implemented are peer-tracking, handshake, choke/unchoke, chunking and merging file pieces and logging all events.

Netflix Data Analysis Using Graph Simulation Jan 2021 — April 2021

- Analyzed Netflix data consisting over 100 million movie ratings by simulation graphs built on various adjacency criteria like making an edge between two customer nodes if they rated a same movie 5 stars.
- Suggested movies for customers by finding out highest rated movies by other customers having closest distances in the graph.

HashTag Counter Jan 2020 — April 2020

- A project to find out the 'N' number of most popular hashtags appeared on social media websites such as Twitter and Facebook. Created by implementing a max Fibonacci Heap in Java.

UK Accidents Database Application Jan 2020 — April 2020

- A SQL based data analysis and visualization web-based project to understand various accident patterns in UK. The project includes various insightful yet complex SQL queries that can be displayed on many type of graphs. HTML/CSS and JavaScript used as Front-end.

PUBLICATIONS

Pneumonia Identification in Chest X-Ray Images using EMD Jan 2020
Springer [\[Link\]](#)

- Pneumonia is a common lung infection where an individual's alveoli fills up with fluid which forms cloudy like structures. EMD, also known as Earth Mover's Distance is the distance of two probability distributions over some region D. We pre-processed the images, re-scaled, rotated and normalized the intensity such that we have a set of uniform size/shape of lungs X-Rays and then we calculated EMD on them and images which had a certain threshold were predicted as infected with an accuracy of 84%.

Video Analytics Based Identification and Tracking in Smart Spaces April 2020
IEEE Xplore [\[Link\]](#)

- This paper describes and reviews various algorithms and methods for the applications of the video content analysis. Discussed are tracking, analysis of the movement and behaviors of objects and humans, face recognition, license plate recognition, tracking a moving object, searching for an object, identifying the geographic location of something, detecting suspicious activities etc.

ACCOMPLISHMENTS AND EXTRA-CURRICULAR

Deep Learning Specialization, Did 5 courses on Deep Learning on coursera as a specialization. Learnt about CNN, RNN, strategies like dropout, BatchNorm etc. Jan 2019

The Joy of Computing using Python, Got Gold certification by securing 90% in Python MOOC from IIT Ropar. Dec 2018

United Nations RIO+24 IDRC 2019 Certification, Successfully completed the exam. April 2019