

DEXSON JOHN D'SOUZA

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TECHNICAL SKILLS

Languages: Java, Python, Javascript, Scala, C/C++.

Frameworks: Node.js, Angular 8, Express, Kafka, Spark, Spring, Maven, React, GCP.

Others: JSON, AWS(EC2, S3, Lambda, Gateway), Git version control, PostgreSQL, Cassandra, Visual Studio.

EDUCATION

Masters of Science in Computer Science, Expected February 2023 , **GPA 3.9/4**

University at Buffalo, The State University of New York

- Algorithms Design and Analysis, Operating System, Machine Learning, Algorithms for Distributed Systems, Project Development, Modern Networking Concepts, Intro to Distributed Systems.

Bachelors of Engineering in Information Technology, May 2019 , **GPA 3.6/4**

Mumbai University

- Object Oriented Programming(OOP), Software Engineering, Automata Theory, Data Mining, Soft Computing, Intelligent Systems, Image Processing, Computer Networks.

EXPERIENCE

SDE III Intern , Walmart Global Tech, Arkansas, May 2022 - Present

- Designed and developed a distributed stream processing platform using Apache Kafka to extract changes from Walmart Locations Database efficiently
- Developed scalable Spark job using Java to read data from Kafka topics into the Google Cloud
- Created unit test cases and deployed in production for 400+ applications

Research Aide, SUNY RF, Buffalo, New York, September 2021 - May 2022

- Created an Isomap of metalloids using geodesic distances of compounds generated using Matlab
- Implemented a functionality to develop rankings of 25 metallic elements for a variety of randomly generated inputs using adjacency matrix and mathematical equations
- Generated correlation of elements with respect to Yield Strength and Ductility of 350 metalloids. Created scatter plot and line graphs to display % increase in properties of each metal in different temperature range

Software Developer, Infinite Computing Systems, Mumbai, July 2019 - July 2021

- Collaborated with 4 teams to create, optimize and maintain several frontend modules in 7 web applications and 3 mobile applications using Angular 8, Node.js and SQL
- Managed a Career portal web application and executed several functionalities in the front end using Angular 8 and React
- Developed a robust backend script to implement Dynamic forms using Javascript and JSON
- Introduced a new option for tracking and locating 100's of work orders using Bing Maps

PROJECTS

Anastocare

- Managed a team of 5 members to develop a Web application and Apple Watch application to support patients possessing the danger of anastomotic leak using Java Spring, Maven, Postgres, AWS EC2 and S3.
- Devised APIs to extract watch data from Firebase Database using Java
- Used Angular 9 to create UI for patients, admins and global admins to display health reports

Stock Market Trading using Deep Reinforcement Learning

- Prototyped a Model leveraging Reinforcement Learning to perform trading on nvidia-2016.1 data
- Formulated an environment to perform Q-learning consisting of 4 states and 3 steps required for Q-learning
- RL Model was able to study trends & patterns and build a trade strategy to augment account value by 40%

Pintos Operating System

- Constructed Alarm Clock System, Priority Scheduler with the implementation of priority donation to improve performance of thread in Linux-kernel covering 45 test cases
- Added a strategy to prevent deadlocks using semaphore and locks
- Implemented 10 System calls and Process management to execute User programs in Linux environment