Dexson John Dsouza

dexsondsouza@gmail.com | 7162926386 | linkedIn/dexson-d-souza | github/Dexson-Dsouza

EDUCATION

Masters of Science in Computer Science   Expected Dec 2022
UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK
Algorithms for Distributed Systems; Project Development; Operating Systems; Modern Network Concepts

WORK EXPERIENCE

WALMART | SOFTWARE DEVELOPMENT ENGINEER INTERN   Arkansas | June 2022 – Aug 2022

- Designed and developed a distributed stream processing platform using **Kafka** to extract changes from **Cassandra Database** efficiently .
- Developed scalable scripts using **Java** and **Spark** to read data from Kafka topics into the **Google Cloud Platform**
- Deployed the infrastructure through **GCP Dataproc** and implemented test cases for **100 % Code coverage**
- Exceeded requirements in each development stage, which lead to the application being pushed to production.

INFINITE COMPUTING SYSTEMS | SOFTWARE DEVELOPER   Mumbai | July 2019 - July 2021

- Managed a Career portal web application and executed several functionalities in the front end and back end using **Angular 8**, **Node.Js** and **SQL**
- Developed a robust backend script to implement Dynamic forms using **Javascript** and **JSON**
- Reduced cost by 20% by introducing a new option for tracking and locating 100's of work orders using **Bing Maps**

SUNY RESEARCH FOUNDATION | RESEARCH ASSISTANT   New York | Sept 2021 – May 2022

- Created an Isomap of metalloids using geodesic distances of compounds in **Matlab**
- Generated correlation of elements with respect to Yield Strength and Ductility of 350 metalloids using **Python**, **Numpy** and **Matplotlib**

PROJECTS

ANASTOCARE ↗   ANGULAR 8, JAVA, SPRING, POSTGRES, AWS S3, AWS EC2
Managed a team of 5 to develop a full stack Web application and Apple Watch application to support patients possessing the danger of anastomotic leak

PINTOS OPERATING SYSTEM ↗   OBJECTIVE-C, LINUX
Implemented Core concepts such as Multi-Threading, Synchronization, Priority Scheduling, Priority Donation and 10 system calls in Pintos Operating System. Designed deadlock recovery mechanism and different scheduling algorithms

DIABETES CLASSIFICATION ↗   PYTHON, PANDAS, SKLEARNS, MATPLOT, JUPYTER
Prototyped a Maching Learning Model leveraging Gradient Descent with Logistic Regression to perform Diabetes Classification with 81% Accuracy

TEXT CHAT APPLICATION ↗   C++, SOCKET PROGRAMMING, LINUX, RED HAT SERVER
Created a chat application consisting of a server and multiple clients. Implemented features like Login, Logout, Send, Broadcast for Client and functionalities like Block, Unblock and Statistics for Server.

LEAVE AND ATTENDANCE PORTAL ↗   JAVASCRIPT ,NODE JS, EXPRESS JS, SQL, IIS SERVER
Developed and maintainted back-end of a Leave and Attendance Management application. Implemented Session Management, JWT authorization, Active Directory Synchronization, Email and Push notifications.

SKILLS

Languages: Java, Python, C/C++
Web Development: Spring, Maven, Node Js, Express, Angular, React, HTML/CSS
Database: MySQL, Postgre, Cassandra
Others: Git version control, AWS(EC2, S3, Lambda, Gateway), GCP(Big Query, Dataproc, Cloud Storage), Spark, Apache Kafka