

# PRANAV MORESHWAR SORTE

pranavmo@buffalo.edu | 716-249-9277 | Buffalo, NY

## EDUCATION

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### ***Masters of Science (Computer Science and Engineering)***

University at Buffalo, The State University of New York

August 2021 – December 2022

Courses taken – Analysis of Algorithms, Distributed Systems, Blockchain application development, Machine Learning, Database Systems, Data Models and Query Languages

### ***Bachelor of Engineering (Computer Science)***

University of Pune

August 2015 – May 2019

Courses taken – Cloud Computing, Software Engineering Concepts, Data analytics, Data mining, Data Structures, Object-Oriented Programming, Computer architecture

## TECHNICAL SKILLS

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***Programming Languages*** – Python, C++, C, Javascript, SQL, Solidity

***Web Technologies*** – ReactJS, HTML5, CSS, Flask

***Databases*** – Oracle 12c, MySQL, MongoDB

***Miscellaneous***– Git, Docker, LIMS, SQL Server Management Studio, Apache Kafka, REST APIs

## WORK EXPERIENCE

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***System Engineer*** – Tata Consultancy Services, Mumbai

July 2019 – July 2021

- Developed a complete web application for employee access management using Flask framework, through which employees generated requests to access Oracle EBS functionalities.
- Enhanced existing site's appearance and functionality by adding reusable components in ReactJS.
- Conducted regular maintenance and enhancements activities of web applications.
- Optimized subroutines and SQL queries in LIMS tool to reduce workflow loading time.
- Improved readability of daily ticket summary by designing descriptive visualizations in Python and developed an automated email delivery system of visualized reports.
- Led migration of legacy web applications from Windows server 2008 to Windows server 2016.

## PROJECTS

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***Decentralized car rental system using Ethereum Blockchain***

October 2021

- Leveraged Solidity functions in Remix IDE to design a smart contract for car rental system.
- Created a custom token for car rental system (CRS) by leveraging the ERC20 functionalities.
- Deployment and testing of smart contract on Ropsten test network.

***Implementation of Pub-Sub system using Flask, MongoDB, Docker, and Kafka***

September 2021

- Implemented space events daily notifications system leveraging Kafka service as a central broker.
- Leveraged Apache Zookeeper service for configuration of multiple nodes to handle multiple topics.
- Dockerized entire application by bridging multiple service containers.

***Artificial Neural Network on MNIST dataset***

August 2021

- Implemented single-layer neural network from scratch on MNIST dataset with data preprocessing.
- Conducted feedforward pass, backward propagation, regularization, and hyperparameter tuning.
- Compared single-layer neural network with multiple layer neural network leveraging Tensorflow.

***Funding Prediction on Donor Chose dataset using Naïve Bayes***

August 2020

- Performed data cleaning, data featurization (BoW, TF-IDF) on Donor Chose dataset.
- Built a Multinomial Naïve Bayes model along with hyperparameter tuning for best accuracy.

***Smart Hospital for Heart disease prediction using IoT and SVM***

March 2019

- Integrated AD8232 sensor with ESP32 microcontroller for live simulation of ECG on a custom-built mobile application. Extracted features from ECG wave using MATLAB.
- Simulated an SVM model on features dataset using WEKA tool.

## CERTIFICATIONS & TRAININGS

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***Microsoft Certified: Azure Fundamentals***

October 2020

***Zensar Employability Skill Development Program***

March 2018 – June 2018