Meet Thosani

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SKILLS

Programming Languages: Python, Clojure, ClojureScript, JavaScript, PHP
Web Technologies/Tools: Node.js, Flask, Express.js, React.js, Reagent, Google Cloud Platform, Docker, Solr
Statistical Tools: Tableau, Power BI, MS Excel
Databases: MySQL, PostgreSQL, MongoDB

EXPERIENCE

Viasat - Carlsbad, California   May 2022-Aug 2022
Software Engineer Intern
- Worked on the Service Feasibility team to solve the complexity of accessing Resource Specs.
- Created a VNO portal like user interface that allows users to interact directly with the Resource Specs, which previously could only be engaged with using CLI or Postman.
- Implemented permissions such as Admin, Read, Write, Delete and Purge, based on which the users can perform operations in different registries and workspaces.
- Enabled users to create a new spec, edit an existing version of a spec and delete a spec from the UI itself, depending on the permissions given to the user.

SoftCode Developers - Mumbai, India   Feb 2020-Apr 2020
Business Intelligence Intern
- Conducted exploratory data analysis on historical financial data of various American banks.
- Researched to reveal insights about their stock performance throughout the Global Financial Crisis.
- Implemented various Machine Learning forecasting algorithms such as ARIMA, LSTM and Facebook Prophet to predict the stock price of NIFTY50 index.

PROJECTS

Stooty - Web Application to Promote Entertainment Industry   Feb 2022-May 2022
- Worked on a live client project to create an enterprise web application using PHP and JavaScript.
- This application connects creators and studio operators together to produce media based content such as music, podcasts, photography events, films, etc.
- Developed a feature that allows users to synchronize booked event details with their Google Calendars using the Google Calendar API.
- Added an option to signup or login into account using a unique username with required validation fields.
- Created a search bar that allows searching other users of the system using their username.

Publish-Subscribe Distributed System using Docker Containers   Sept 2021-Dec 2021
- Created a docker container-based web application using Python's Flask framework.
- Implemented a distributed system in which the publisher sends Space Events data to multiple event manager nodes.
- The docker application partitions this data and pushes them to the subscribers according to their selected topics.
- Managed a database of the publishers, subscribers and filtered data using MongoDB Docker image.
- Recreated the application by replacing the distributed brokering module with a centralized Kafka broker network.

Handwritten Digit Classification using Multilayer Perceptron Neural Network   Oct 2021-Nov 2021
- Implemented a Neural Network on MNIST dataset using Feed Forward method and Backpropagation algorithm.
- Evaluated the efficiency of this NN in classifying handwritten digits.
- Obtained an accuracy of 93.96% with optimal regularization coefficient.

Car Rental System using Blockchain   Sept 2021-Dec 2021
- Developed a decentralized car rental application on the Ethereum blockchain.
- Integrated an ERC20 token standard and a smart contract written in Solidity with the DApp using JavaScript.
- Implemented various functions to invoke peer-to-peer interaction between the renter and the borrower, thus providing transparency to the customer by eliminating the need of a centralized system.

EDUCATION

University at Buffalo, SUNY – New York, USA   Aug 2021-Present
Master of Science in Computer Science and Engineering

Charotar University of Science and Technology - Gujarat, India   Jul 2016-Apr 2020
Bachelor of Technology in Computer Engineering