

Munish Tanwar

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EDUCATION

University of Florida, Gainesville, FL

Master of Science - Computer Science

May 2024

Bachelor of Science - Computer Science, Minor - Mathematics | GPA: 3.92/4.0

May 2022

Relevant Coursework - Operating Systems, Machine Learning, Software Engineering, Data Structure and Algorithms, Databases, Data Science.

SKILLS

Languages: Python, JavaScript, Java, C++, Go, HTML, CSS

Frameworks/Tools: React, Node.js, MongoDB, AWS, Cloud Firestore, Git, MySQL, TensorFlow

PROJECTS

Gator Sublease - Student Apartment Sublease Web App.

Jan. 2022-May 2022

- Designed a subleasing web application using React, Golang, and MongoDB that allows users to create, update, and delete posts for sublease, and to view sublease for apartments based on pricing and lease term
- Coordinated a team of four in planning, designing, and building the application
- Formulated backend logic to manage users, manage and view leases, and user authentication using JWT
- Developed the database schema for users and leases with MongoDB
- Created unit testing for Golang backend and created REST API Documentation

Fantasy Finance - Paper Trading Web App.

Aug. 2021-Dec. 2021

- Developed a paper trading web application for users to join a league where they can trade stocks and compete with other users
- Collaborated with a team of five to build the project using ReactJS, Node.js with Express, and Firestore database
- Implemented the logic for buying stocks based on the current market value using IEX API

Spotify Song Recommendation System

June 2021

- Designed a Spotify song recommendation system that allows the user to provide one or more songs and get recommendations based on those songs
- Adapted content-based filtering and similarity measures to generate song recommendations

Social Media Sentiment Analysis

Feb. 2021-April 2021

- Implemented an RNN neural network model, on a team of two, that can perform sentiment analysis about a company and its product on Social Media posts
- Utilized Tweepy API and Reddit API to extract real-time data from Twitter and Reddit respectively

SwampHacks - GarabageSort

Jan. 2020

- Created a web application centered around the hackathon's theme of sustainability that allows users to sort garbage based on provided image of the waste
- Collaborated with a team of four using Node.js with the Google Cloud Vision API, and designed the user interface using HTML5 and CSS

Fitness Web Application

Jan. 2020-May 2020

- Developed a fitness web application with a team of five for a client using ReactJS, Node.js with Express, and MongoDB
- Implemented a custom calendar using React which has an appointment and email notification features through Nodemailer API and MongoDB

RESEARCH AND INVOLVEMENT

Machine Intelligence Laboratory - Undergraduate Researcher

Jan. 2022-May 2022

- Collaborated with a team of 12 to develop autonomous boats for the VRX 2022 competition
- Developed test files for training the perception algorithm of an autonomous boat using ROS

UF Student InfoSec Team

Aug. 2020-May. 2021

- Assisted in the weekly Capture the Flag using penetration testing and problem-solving skills