

Venkata Surya Teja Matcha

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Git profiles:
github.com/MVSTeja91 | github.com/MVSTeja06 | github.com/MVSTEJA

Portfolio:
myportfolio-website

Graduate Research Assistant

I am a Graduate Research Assistant pursuing a Master's program (Fall 2021 - Spring 2023, expected) in Computer Science at Old Dominion University.

Education

Pursuing Master's in Computer Science, Fall 2021 - Spring 2023, **Old Dominion University**, Norfolk, VA, USA.

Bachelor's in Engineering 2012, Electronics Design and Manufacturing, **Indian Institute of Information Technology Design & Manufacturing Kancheepuram**, India

Work Experience

Graduate Research Assistant - *Old Dominion University*

08/2021 to current

- Working on an Emotiv headset research project, Where the concept is to collect brain waves data and to study the patterns that lead a test subject that lead to falling asleep, falling from a height, and even agitation.
- Working on a University CubeSat project in collaboration with the Mechanical department students, Where we are working on Bright Ascension Flight Software in **C**, which deploys software onto Raspberry PI's and Beaglebone (Experimental purposes). And collect sensor information from bme 280 (temperature humidity) sensors.
- Developing an E2E software system for Aggression Detection Research Project, Where I build interfaces for the Wearables(Fitbit) with Mobile applications (Android). And after the aggregation of data send messages or notifications to caregivers. The end result is to collect various hand movement axis data And correlate this with medication data to find patterns for behavioral changes.
- Building end-to-end systems for Applied Engg Industry, A Call center software company. Working with **React Native** and **React** for UI, **Nginx** for multi-app hosting, Backend in **Java's** Spring boot, hosted on **CentOS**.
- Built application data Pagination, Search and Form Filter based on **queryDSL** of Java **Spring** framework. Worked on solving the **recurring** dates of a calendar problem of an in-house custom-built Room Booking System for ODU.
- Built a **Sign language** detection mobile application as part of the HCI course project, with the help of PyTorch library. Built UI with react-native. The idea of the app is to detect hand signs from the American Sign Language(ASL) and as well convert text to signs. Built a working prototype where we were able to detect objects and demo the concept.