

Venkata Matcha *Graduate Research Assistant*

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Graduate Research Assistant, who has a passion for Full stack development. I have strong **web application development, Unix/Linux environments**, and **API design skills**. I have proven **de-bugging** skills on an end-to-end full-stack. I write code and deliver it with speediness and quality. Always eager to adapt and take on new challenges.

EDUCATION

Old Dominion University, *Master's in Computer Science*

August 2021 – May 2023 | Norfolk, USA

IIIT DM Kancheepuram, *Bachelors in Electronics Engineering*

August 2008 – May 2012 | Chennai, India

SKILLS

Frontend

Javascript(Expert), HTML, CSS, React(Expert),
Redux(Expert), React Native(Intermediate), Angular 2

Tools

Git, JIRA, VSCode

Backend

Python, C, Java, NodeJS, Spring boot, PyTorch, MySQL,
Oracle DB.

Other

Swift (Intermediate), Swift UI

PROFESSIONAL EXPERIENCE

Graduate Research Assistant, *Old Dominion University*

August 2021 – present | Norfolk, USA

- Built application data pagination, filter form which uses **queryDSL** of Java Spring framework to build sql queries and fetch data, this removed the need for multiple query methods, **removed lot of bloated code**.
- Worked on solving the **recurring dates** of a calendar problem of an in-house custom-built Room Booking System for ODU (Angular 2, NodeJs).

PROJECTS

Cubesat Sensor integration

Working on a University CubeSat project, Developing flight software in C, which deploys software onto embedded processors such as Raspberry PI and Beaglebone (Experimental purposes). This collects the sensor information from bme 280 (temperature humidity) sensors.

Call Center Software

Building end-to-end systems for Applied Engg Industry, A Call center software company, Software Development Lifecycle (SDLC) is in agile sprint model. Working with React Native and React for UI, Nginx for multi-app hosting, Backend in Java's Spring boot, Oracle DB, hosted on CentOS.

HCI CS 795

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 could detect objects, and identify them hence a proof of concept.

Emotiv Brainwaves

Working on an Emotiv headset research project, the concept is to collect brain waves data (NodeJS) and study the patterns that lead a test subject that lead to falling asleep, falling from a height, and even agitation.