SETHU PAVAN VENKATA REDDY PASTULA

Linked in

ACADEMIC BACKGROUND

Cardiff University
B.sc Computer Science| 2023
- Relevant Modules: Problem Solving with Python, OOP, Web Applications, Data Structures and Algorithms.
- On track for a 2:1 Class degree. 1st Year Grade: 71%

Narayana Jr College
HSC (A levels Equivalent) | 2017-2019
- Studied advanced Mathematics, Physics and Chemistry and graduated as a 1st Class Student.

SKILLS SUMMARY
- ■■■■■ Python
- ■■■■□ Machine Learning
- ■■■■□ HTML/CSS
- ■■■■□ WordPress
- ■■■■□ Java
- ■■■□□ SQL
- ■■■■□ UNIX Scripting

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RELEVANT EXPERIENCE

Software Tester
UserTesting Inc | Feb 2020-present
- Working as a Freelance Software tester in a large panel of testers who are paid for each successful test.
- Responsible for **UX design** and **Website/App stability** evaluation on eligible tests.
- Suggesting tweaks and providing insights of User Experience to a Company's Website or App.
- This role has helped me applying the knowledge acquired in the module (Developing Quality Software) in real life by creating **Test Cases** and verifying if the website/application passed a Test Case or not.
- Gained an insight over UX designing software stability and applying technical knowledge practically

PROGRAMING EXPERIENCE

LANGUAGE	PROFIECIENCY	EXPERIENCE
Python	Proficient	**Machine Learning**, **Deep Learning**,Computer Vision, Web Development and Problem Solving. Packages most used: **Tensorflow**,Keras, Sklearn, Matplotlib, NumPy, **Pandas** and **Flask**
Java	Proficient	used in modules. e.g. Object-Oriented Java Programming. Packages used: Java.io, Java.Util
HTML	Proficient	used in modules. e.g. Web Applications and also used to make my Personal Website
WordPress	Proficient	Proficient and can develop **artistic**, high-end, and **visually appealing** websites with stunning animations and creative techniques to automate animations. Plugins most used: **Elementor**, WP Forms
JavaScript	Moderate usage	Moderate usage, used to make my **Personal Website**.
MySQL	Proficient	Proficient, used in modules. e.g. Web Applications. Created an **E-commerce Website.**
C	Limited usage	used this to gain an understanding of how low-level system operations work
Assembly Language	Moderate usage	used in modules. e.g. Architecture and Operating Systems

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PERSONAL PROJECTS

- COVID-19 Prediction using CNN: Predicts if a person has been infected with COVID-19 or not with a Chest X-Ray using Convolutional Neural Network (**CNN**), Transfer Learning and Data Augmentation which was trained on 200 Chest X-Rays using **Tensorflow** and Keras. Accuracy of the model: 92%.
- Face Detection using MTCNN: Implementation of face detection system using pre trained Multi-tasked Cascaded Convolutional Neural Networks(MTCNN) by @ipazc. It is based on the paper Zhang, K et al. (2016). One of fastest and most accurate Face Detection models ever created.
- IP Tracker: Tracks someone's location using IP address with help of IP APIs. Built with CGI,Python and HTML.
- SethuX and Chemistry: Apps created using iGenApps to share my NASA project digitally and check my Chemistry notes in my last-minute revision for exams during my 11th Class.
- Novus Terra: An Individual project submission to NASA Space settlement Contest 2016 for which I was invited to attend International Space Development Conference (ISDC), USA.
- Atom: A group project, commanded by me, a submission to NASA Space Settlement Contest 2016 for which our team was invited to attend ISDC, USA

RELEVANT EXPERIENCE

Transcriptionist
Rev | March 2020 - May 2020

- As a freelance Transcriptionist, I have transcribed 844 minutes of sound and video files for the clients whom I have accepted to work for.
- Developed professional skills like handling confidential material and meeting client deadlines, balancing workload and quality output of data.
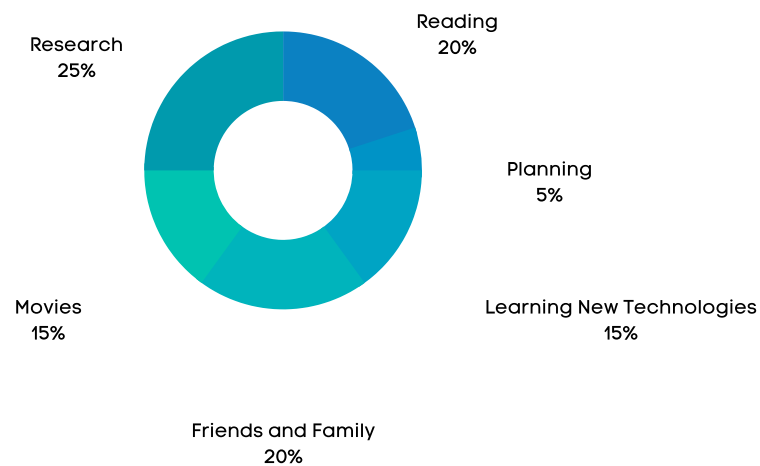
Team Lead
NASA | Nov 2016– Mar 2017

- Led a team to develop Space Settlement concept for NASA Space Settlement Contest in 2016.
- Developed new ways to extract water in space and create energy for our Space Settlement.
- Invited to International Space Development Contest (ISDC) 2016. Also did an Individual project alongside with group project which was also a success

MY TIME

Research 25%

Reading 20%

Planning 5%

Learning New Technologies 15%

Friends and Family 20%

Movies 15%

SPORTS

- **ENGLISH POOL**: Began playing after moving to the UK and loved it immediately. Began to practice daily and won the local Pool Championship (The West Wing Champion) in 2019.
- **HIKING**: It is also one of the things I started after moving to the UK which I feel very connected with. I have had my first hike in Brecon Beacons, Wales. I went with my friends during Summer 2020. It was very mentally rejuvenating.

ACHIEVEMENTS AND INTERESTS

1. Selected and was invited to International Space Development Conference (ISDC), USA by **NASA** in 2016 for my Individual and team submissions on Space Colonization, Novus Terra and Atom.
2. Recipient of £2000 Cardiff Vice-Chancellor's International Scholarship in 2019.
3. Invited Speaker for International Astrophysics Conference 2020 in Rome, Italy