

# Sethu Pavan Venkata Reddy

## Pastula

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[GitHub](#) - [LinkedIn](#)

### OBJECTIVE

An excellent academic record, ability to understand and a passionate learner with strong understanding of core **Software Engineering** technologies. Seeking for **Placement Year, Internship** Software Engineering roles to broaden my knowledge in the Software Engineering domain and utilize my skills.

### 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.

#### Data Scientist, Sundar, Inc

Nov 2020 – Present

- As a Data Science intern, my responsibilities include working closely with CTO, software engineering and product teams to design, develop and scale products.
- Using **Machine Learning** during scraping of various sources and conversion of raw data to normalised statements of fact.
- Using Machine Learning to adjust weights for degrees of trust based on relationships (reputation management) and automating the scraping, unification, and ingestion of the data using **AWS services**.
- Using scrapinghub, scrapy, and python for **web scraping**.
- Using Machine Learning for entity extraction and entity resolution, thereby creating linkages across sets of facts, and graph analytics to generate metrics for the degree of trustworthiness in the data.

### EDUCATION

#### B.Sc. Computer Science with Industrial Placement, Cardiff University

2019 - 2023

- Currently studying 2<sup>nd</sup> year of the course (on track for 2:1)
- Modules:** Object Oriented Programming with Java, Data Structures and Algorithms, Database Systems, Web Applications, Problem Solving with Python, Communication Networks.

#### Higher Secondary Certificate (HSC), Narayana Jr College, India

2017 - 2019

- Studied advanced Mathematics, Physics and Chemistry and graduated as a 1st Class Student

### PROGRAMMING EXPERIENCE

Language	Experience
Python	<b>Machine Learning, Deep Learning</b> , Computer Vision, Web Development and Problem Solving. Packages most used: <b>Tensorflow</b> , Keras, Sklearn, NumPy, Pandas and <b>Flask</b>
Java	used in modules. e.g., Object-Oriented Java Programming. Packages used: Java.io, Java.Util
HTML	used in modules and personal projects. e.g., Web Applications and also used to make my <a href="#">Personal Website</a> .
WordPress	Can develop <b>artistic</b> , high-end, and <b>visually appealing</b> websites with stunning animations and creative techniques to automate animations. Plugins most used: <b>Elementor</b> , WP Forms
JavaScript	Moderate usage, used to make my <b>Personal Website</b> .
SQL	used in modules. e.g., Web Applications and Database Systems Created an <b>E-commerce Website</b>
C, C++	used this to gain an understanding of how low-level system operations and object-oriented programming work
Assembly Language	used in modules. e.g., Architecture and Operating Systems

## OTHER WORK EXPERIENCE

### Transcriptionist, Rev

Mar 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.
- Also developed professional skills like handling confidential material and meeting client deadlines, balancing workload, and quality output of data

### Team Lead, NASA Space Settlement Contest

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.

## PERSONAL PROJECTS

- 1) **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 Chest X-Rays using Tensorflow and Keras. Accuracy of the model: **92%**.
- 2) **Face Detection using MTCNN**: Implementation of face detection system using pre trained Multi-task Cascaded Convolutional Neural Networks (MTCNN) by [@ipazc](#). It is based on the paper Zhang, K et al. (2016). One of the fastest and most accurate Face Detection models ever created.
- 3) **IP Tracker**: Tracks someone's location using IP address with help of IP APIs. Built with CGI, Python and HTML
- 4) **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 11<sup>th</sup> Class.

## ACHIEVEMENTS

- 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**: 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
- Invited Speaker for International Astrophysics Conference 2020 in Rome, Italy.
- Recipient of **£2000** Cardiff Vice-Chancellor's International Scholarship in 2019.

## INTERESTS

- **English Pool Professional Player**: Began playing after moving to the UK and loved it immediately. I began to practice daily, and I 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.
- Contributing to **GitHub** and **Stack overflow**

*References available on request*