

# Sethu Pavan Venkata Reddy Pastula

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

## EDUCATION

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**B.Sc. Computer Science with Industrial Placement, Cardiff University** 2019 - 2023

- Currently studying 2<sup>nd</sup> year of the course
- **Relevant Modules:** Problem Solving with Python, Object Oriented Java Programming, Web Applications

**Higher Secondary Certificate (HSC), Narayana Jr College, India** 2017 - 2019

- Studied advanced Mathematics, Physics and Chemistry and graduated as a 1st Class Student.
- **Languages:** Sanskrit and English

**Secondary School Certificate (SSC), Sri Chaitanya Techno School, India** 2016 – 2017

- **Sciences:** Integrated Maths, Physics, Chemistry, Computers and Social Sciences and graduated with 98%
- **Languages:** Telugu, Hindi, English and Sanskrit

## PROGRAMMING EXPERIENCE

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- **PYTHON:** Proficient, used for **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 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, used to make my [Personal Website](#).
- **MYSQL:** 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

## RELEVANT EXPERIENCE

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**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.

## KEY SKILLS

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**RESILIENCE:** I was appointed as a **Team Leader** to my Space Settlement Contest team in 2016. I had to monitor, make decisions, and generate ideas within the team which I initially felt was very hard but then I was guided on team management and planning by my mentor and I am so happy to say that I was successful in making my team excel in the contest and we were invited to International Space Development Conference(**ISDC**), **USA** held by NASA.

**COMMUNICATION:** Great verbal and written skills were mastered while completing my **Research** submission on Space Settlements to **NASA** and during my first year while completing project reports.

**FLEXIBILITY:** As a **Transcriptionist**, I had to listen to hours of audio files **patiently** to understand different accents and made-up words to type what they were saying. This was a completely **new environment** for me but thanks to the wise advice from professional Transcriptionists on **YouTube** and I was able to convert this effort into money.

**COLLABORATION:** During my first year, we all were teamed up to make an E-Commerce Website/ Online Shopping website and we made decisions, meeting plans, and everything collaboratively. I did my part of the website and reviewed everyone to ensure we get the high mark which we got thankfully.

## OTHER WORK EXPERIENCE

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### Transcriptionist, Rev

March – 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
- Achieved the title “**Revver**” during my time in Rev since my exceptional performance report met the requirements of a Revver which is predecessor of the topmost title “Revver+”

### Astrodynamics Team Lead, TSAW

Apr 2019 – Feb 2020

- Worked as a Team lead for Astrodynamics wing in a Space Mining start-up in India. Role includes planning and developing efficient trajectory, strategies to land on a mineral rich asteroid.
- Developed leadership qualities, understood how professional record keeping works and gained knowledge on Space Mission Design and challenges involved in landing on an asteroid.
- Teamed up with people from different parts of the country and had conference with scientists all over the world.

## ACHIEVEMENTS

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

## PROJECTS

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- **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-task 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 11<sup>th</sup> 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

## INTERESTS

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**ENGLISH POOL**: Began playing after moving to the UK and loved it immediately. I began to practice daily, and I won the Pool Championship held at my accommodation in 2019.

**GAMING**: I have always been a Gamer and Tech-Enthusiast. I follow the latest hardware news, gaming news and make PC configurations and sometimes upload my game clips on YouTube.

**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.

*References available on request*