


Harshita Sharma

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Technical Skills

Operating Systems

- > MacOS, Linux, Windows

Web Technologies

- > Node.js, ReactJS, ExpressJS
- > Flask, VueJS,
- > MySQL, MongoDB
- > HTML, CSS, Bootstrap, REST

Scripting

- > Python, C/C++(STL)
- > Assembly, JavaScript
- > Bash, Go(Basic)

Miscellaneous

- > Git, BitBucket

Coursework

Computer Science

- > Data Structures and Algorithms
- > IT Workshop, Structural System Analysis and Design(SSAD)
- > Computer System Organization
- > Operating Systems, Computer Networks

Mathematics

- > Probability Theory
- > Linear Algebra/Graph Theory

Linguistics

- > Computational Linguistics
- > Phonetics, Phonology, Morphology
- > Syntax Structure(X-bar, Phrase Structure, UD)
- > Sociolinguistics

Interests

- > Sketching, Typography
- > Reading, Fiction

Education

B Tech. in Computer Science + MS by Research in Computational Linguistics

July 2017 - Present

International Institute of Information Technology(IIIT), Hyderabad

Senior Secondary, CBSE

July 2015 - May 2017

CGPA: 10.0, St. Angela Sophia Sr. Sec. School, Jaipur

Secondary, CBSE

July 2013 - May 2015

CGPA: 10.0, St. Angela Sophia Sr. Sec. School, Jaipur

Experience

MEVN Stack Developer, deScign, CIE - IIIT, Hyderabad

Aug 2018 - Nov 2018

- Gamification for dataset curation - A game where users can login/signup, upload documents which are parsed for users to tag nouns as ingredients/reagents to obtain good quality datasets.

Projects

Extreme Tic Tac Toe - AI Bot

Python

Artificial Intelligence

- A 3x3x3x6 Tic-Tac-Toe extension of the Ultimate Tic-Tac-Toe using minimax search and alpha-beta pruning along with a heuristic on various board positions.

Subway Surfer 3D Game

WebGL

JavaScript

- A 3D game like Subway Surfer created using WebGL with shader tasks like grayscale, texture and lighting.

Mobile Money - PayPal Prototype

Flask(Python)

SQLite

- A web application to facilitate money transactions and maintain their log for different type of users including business owners.

Fighter Aircraft 3D game

OpenGL

C++

- Game based on the original War Thunder(3D), developed in C++ using OpenGL.

Linux Shell

C

System Calls

- A linux like shell developed purely in C with all command sets and piping features along with foreground and background processing implemented and tested.

Automatic Question Generation

NLP

Python

- Automatic question generation using NLP on children's fables.
- The questions generated are simple and factual WH- questions.

Other Minor Projects

C++

Python

OpenGL

Computer Networks

JavaScript

AI

- **Jetpack Joyride 2D game** : 2D Game based on original Jetpack Joyride, developed in C++ using OpenGL.
- **Super Mario Terminal Game** : UNIX terminal game based on original Super Mario, purely developed in python without using any external libraries.
- **Web Scraping** : Wrote scripts to extract details about different books from Amazon website.
- **Socket Programming** : A basic server and client using sockets.
- **Markov Decision Process** : Implemented Value Iteration and Linear Programming for finding utility of Markov Decision Process.

Positions of Responsibility

- **Art Society Coordinator, IIIT Hyderabad**
- **Design Team Coordinator, Felicity - IIIT Hyderabad**
- **Member, Campus Life Committee, IIIT Hyderabad**
- **Student Mentor, IIIT Hyderabad**
- **Student Council President, St. Angela Sophia Sr. Sec. School**

April 2018 - Present

May 2018 - February 2018

July 2017 - Present

August 2018 - Present

2016 - 2017