Pratham **Gupta**

Computer Science Engineer (3rd year)
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EDUCATION

International Institute of Information Technology, Hyderabad, India — *BTech in Computer Science and Engineering*
2020 - 2024 · CGPA - 8.94 (Year 1 and 2)

Mount Carmel School, Dwarka, New Delhi, India — *Higher Secondary and Secondary School Certificate (CBSE)*
2006 - 2020 · Class 12th - 96.5 % (Computer Science, Mathematics, Physics, Chemistry) · Class 10th - 95.6 % (Mathematics, Science, English, Social Studies, Hindi)

EXPERIENCE

SS InfoTech, Hyderabad, India — *Software Dev Trainee*
January 2022 - April 2022
Built **Village Vaccination Service** a **Django** based web-application deployed on **Microsoft Azure**, by working in a team and using **Agile** management tools. The app provides an easy vaccination management service for village admin.

PROJECTS

Custom Linux Shell — Operating Systems · C
September 2021 - October 2021
Shell built from scratch that supports most of the **zsh** commands, along with some custom commands, capable of doing **process management**, **piping/redirection**, **signal/error handling**, etc invoking **Linux system calls**.

PC Games — Game Dev · C++ · Python · Javascript · Graphics
January 2022 - March 2022
- **COC** *Lite*- Terminal-based 2D Game in python similar to Clash Of Clans extensively employing and following **OOPS** principles.
- **Ship Wars**- 3D Battleship Arcade Game built using the javascript framework **three.js** with camera perspective and player POV options.
- **Escape Man**- 2D Game using **OpenGL** with cellar-like levels composed of random escape mazes, coins, enemies, and light-system mechanisms.

Automobile Parts Database — DBMS · Python · MySQL
August 2021 - October 2021
Complete database solution, from relational modeling to query interface that manages the end-to-end functioning of the factory using **CRUD** operations.

Campus Canteen Portal — Web Dev · MERN Stack · Docker
January 2022 - February 2022
- Webapp, built using **MERN** stack which provides thorough interface between vendors and buyers, to place, receive, update, delete, and track food orders.
- Containerized using **Docker** and deployed on an online server.

ExamTex — Data Structures · C · C++
April 2021 - June 2021
C-based solution to randomly generate exam papers from large question banks by parsing specification files in **Latex**-like format, as a DSA project.

Algo Analysis of TCP/IP Model — Network Protocols · Algorithms
October 2021 - December 2021
Technical writing doing an analysis of algorithms involved in various levels of the **TCP/IP network** model as the term paper of the Algorithms course.

AWARDS AND TEST SCORES

Dean's Merit List - awarded twice for being in the top 5% of the batch in overall academic performance · 2020-2021 Monsoon · 2020-2021 Spring

Joint Entrance Examination-Mains (JEE-Mains) - AIR 895 · 2020

Kishor Vigyan Protsahan Yojana (KVPY) - SX stream AIR 1056, awarded National Research Fellowship · *Issued by Indian Institute of Science (IISc)* · 2019

Regional Mathematics Olympiad (RMO) - among 30 selected from NCT Delhi · *Issued by Homi Bhabha Centre For Science Ed. (HBCSE)* · 2018

National Standard Olympiad in Junior Science (NSEJS) - among the 6 selected candidates from NCT Delhi, National Top 1% · *Issued by Indian Association of Physics Teachers (IAPT)* · 2016

SKILLS

Programming: Python, Numpy, C++, C, Javascript, SQL, Assembly, Scikit basics

Systems: Linux, System Calls, Y86(_64) ISA, Shell Scripting, TCP/IP, Networks

Web-Development: REST API, MERN Stack, HTML, CSS, MaterialUI, Django, Dockerization, Deployment

Others: Git, Agile Tools, EER-Database Design, ThreeJS, OpenGL, IoT, Arduino Coding, Technical Writing, Blender

RELEVANT COURSES

Machine and Data Learning
Data Structures and Algorithms
Operating Systems and Networks
Design-Analysis of Software Systems
Computer Systems Organisation
Data and Applications
Computer Graphics
Linear Algebra
Probability and Statistics

LEADERSHIP/RESPONSIBLE POSITIONS

House Captain, Mount Carmel School – 2015 - 2016 · Awarded 'Best Prefect'

Events Manager, The Dance Crew, IIIT-Hyderabad – June 2021 - Present