Pratham Gupta

Computer Science Engineer (3ʳᵈ year)
International Institute of Information Technology, Hyderabad

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○ **https://github.com/Pegzcell**

EDUCATION

International Institute of Information Technology, Hyderabad, India — *Computer Science 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)

PROJECTS

Village Vaccination Service at <u>SS-Infotech</u>— January 2022 - April 2022
https://github.com/Pegzcell/Vaccination-Service
A Django based web app deployed on Microsoft Azure that provides an easy vaccination management service for the village administration as part of the village digitization super-project, for the Hyderabad based startup SSInfotech, as a part of the Software Systems course.

Campus Canteen Portal — January 2022 - February 2022
https://github.com/Pegzcell/Campus-Canteen-Portal
A scalable food delivering web application developed using MERN Stack that facilitates vendor-buyer coordination for various functioning canteens on a university campus.

Custom Linux Shell — September 2021 - October 2021
https://github.com/Pegzcell/Custom-Linux-Shell
A shell built from scratch that supports most of the zsh commands, along with some custom commands, all of which execute the functions invoking system calls of a Linux system.

Algorithmic Analysis of TCP/IP Network Model— December 2021
https://github.com/Pegzcell/Algorithm-Anlysis-of-TCP-IP
Technical writing doing an in-depth analysis of the TCP/IP network model, from the point of view of computational algorithms involved at various levels/layers and how they are definitively abstracted to achieve/secure particular functions on the fly, as the term paper for the Algorithms course.

ExamTex — April 2021 - June 2021
https://github.com/Pegzcell/ExamTex
A C++-based solution to create multiple random question papers from large question banks by parsing specification files in Latex-like format as the semester project for the *Data Structures and Algorithms* course.

Automobile Parts Database — August 2021 - October 2021
https://github.com/Pegzcell/AutomobileParts
A complete database solution, from relational modeling to an interface to query the database that manages the end-to-end functioning of the factory, scalably designed to be employed at any other small-scale industry.

AWARDS AND TEST SCORES

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-Languages: Python, C++, C, Javascript, SQL, Lean

Systems: Linux, System Calls, TCP/IP, Network programming, Shell Scripting

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

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

RELEVANT COURSES

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

VOLUNTEER/LEADERSHIP EXPERIENCE

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

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