

Pratham Gupta

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<https://github.com/Pegzcell>

EDUCATION

International Institute of Information Technology, Hyderabad, India — Computer Science Engineering

2020 - 2024

CGPA - 9.05

Mount Carmel School, Dwarka, New Delhi, India — Higher Secondary and Secondary School Certificate (CBSE)

2006 - 2020

Class 12th - 95.0 %

Class 10th - 95.6 %

PROJECTS

Village Vaccination Service —

<https://github.com/Pegzcell/Vaccination-Service>

February 2022 - April 2022

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.

Campus Canteen Portal —

<https://github.com/Pegzcell/Campus-Canteen-Portal>

January 2022 - February 2022

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 —

<https://github.com/Pegzcell/Custom-Linux-Shell>

September 2021 - October 2021

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.

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

Advanced: Python, C, C++, Javascript,
Django, MERN Stack, MaterialUI, SQL,
CSS, Agile Project Management,
Enhanced Entity Relationship
modeling for Database Systems,
ThreeJS, OpenGL

Familiar: Deployment, Dockerization,
Shell scripting, Internet of things,
Technical Writing, Blender

Automobile Parts Database —

<https://github.com/Pegzcell/AutomobileParts>

August 2021 - October 2021

A complete database solution right from relational modeling to an interface to query the database that efficiently executes DDL and DML commands on the database that holistically manages the end-to-end functioning of the factory.

ExamTex — <https://github.com/Pegzcell/ExamTex>

April 2021 - June 2021

A C++-based solution to create multiple random question papers from large question banks by parsing specification files in Latex-like format (Refer sample inputs for question banks/papers below) as the term-project for the *Data Structures* course.

Algorithmic Analysis of TCP/IP Network Model—

<https://github.com/Pegzcell/Algorithm-Anlysis-of-TCP-IP/blob/master/Technical%2oWriting.pdf>

October 2020 - December 2024

Technical writing based on analysis of algorithms involved in various levels of the network model as the semester-project for the *Algorithms- Analysis and Design* course.

RELEVANT COURSES

Design and Analysis of Software Systems

Operating Systems and Networks

Algorithms- Analysis and Design

Machine and Data Learning

Data Structures and Algorithms

Computer Graphics

Discrete Structures

Linear Algebra

Probability and Statistics

VOLUNTEER EXPERIENCE AND LEADERSHIP

Student Council, Mount Carmel School— *House Captain*

2015 - 2016

Took up multiple leadership roles such as a teaching assistant, event anchor, and student monitor during the tenure.

Student Council, Mount Carmel School— *Junior House Captain*

2012 - 2013

Was awarded the best prefect award for the year by the school principal for my leadership roles and active contribution to the student community.

The Dance Crew, IIIT Hyderabad — *Events lead*

June 2021 - Present

Organized and participated in about 8 university-wide dance events that included competitions and cultural performances.