

PRADEEPTO PAL

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ACADEMIC QUALIFICATION

B.Tech, Computer Science

June 2024 - May 2028

SRM Institute of Science and Technology

INTERNSHIPS / TRAINING EXPERIENCE

CS50P: Introduction to Programming with Python

January 2025 - March 2025

- Python Programming was learned along with test cases.
- Built a weather dashboard app with the CustomTkinter module and OpenWeatherMap API.

HackwithIndia, Core Chapter Moderator

December 2024 - March 2025

- Co-ordinated different chapters of HackwithIndia in different colleges across India.
- Served as the diplomatic link between the organization and the college chapter president.

TECHNICAL SKILLS

Languages: Python, C, C++, HTML/CSS, Tailwind, JavaScript, Solidity, MySQL, Shell, Bash, Flask, PyQt5

Tools: VS Code, Git, Github, Gitlab, BitBucket, Supabase, WSL Subsystem

PROJECTS

Online OD (On-Duty) Management System

October 2024

[Github](#) [Deployment](#)

- Built a web-based application that enables students to mark OD for any event in the college. It also helps teachers review and save information regarding the ODs.
- Created using HTML, Tailwind, JavaScript, Python-Flask and MySQL.
- Built for Connect SRM Hackathon organized by BitBuckets SRMIST.

Image Processing with Intel oneAPI DPC++

February 2025 - April 2025

[Github](#)

- Built a comparison program using Intel oneAPI. Processes 3 types of image: Blur, Edge & Grayscale.
- Created using C++, Shell and Intel oneAPI Toolkit.
- Runs Serial Processing using CPUs and Parallel Processing using Intel GPUs.

ScrollCue.js

April 2025 - Current

[Github](#) [npm.js](#)

- Built a scroll animation library for JavaScript.

- Animations created using CSS logic and JavaScript.
- Lightweight, dependency-free, and easily importable via the npm.js package.

RESEARCH EXPERIENCE

SRM Institute of Science and Technology, India January 2025 - February 2025
Gravastars as Alternatives to Black Holes: Theoretical Insights and Implications for Astrophysics
 Developed a theoretical model of gravastars analyzing their structure through Einstein's field equations and junction conditions. Investigated shell equilibrium stability under radial perturbations.

EXTRACURRICULARS

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- Attended a workshop "Web3 me bahut scope hai" by Smit Patel, India lead @Wormhole Foundation
 - Coordinated BuildWithIndia Successfully (2025)
 - Won first position in the category "Hindi" in singing on a state level in Bharat Vikas Parishad (2023).

LEADERSHIP ROLES

Hackstasy, Computer Society of India April 2025

- Led the online rounds for the hackathon, a flagship event of Computer Society of India, SRMIST Chapter.

HackwithIndia October 2024 - March 2025
Community Moderator

- Moderated the vast community of HackwithIndia, managing more than 5000+ people
- Moderated BuildWithIndia

COMMUNITY INVOLVEMENT

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- Core Member in Computer Society of India
 - Actively contributing to Open Source projects.
 - Participating in MLH events, Hacktoberfest.