

PRADEEP SINGH

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EDUCATION

Examination	Institute	Year	GPA/Marks
B.Tech(CSE)	Graphic Era Hill University Dehradun	2022 - Present	8.23/10.0
XII	V. V. M. I. C. Champawat	2020	82.00 %
X	V. V. M. I. C. Champawat	2018	82.00 %

PROJECTS

StudyNotion (Nov 2024 - Jan 2025) [Live](#) | [GitHub](#) (Node.JS, Express.JS, React.JS, MongoDB)

- Built a **full-stack EdTech platform** using the **MERN stack**, enabling users to create, sell, and purchase educational content.
- Implemented **authentication** and **authorization** using **JWT** and role-based access control (**RBAC**) for secure user management.
- Integrated Razorpay for **secure payment processing**, ensuring a **seamless transaction experience** for content creators and consumers.

CPU-Scheduling-Simulator (Oct 2024) [Video](#) | [GitHub](#) (Python, Tkinter, Pillow)

- Created an **interactive CPU Scheduling Simulator** to help users **visualize, analyze, and compare** different **CPU scheduling algorithms** in real-time.
- Developed and integrated **FCFS, SJF, SRTE, Priority Scheduling**, and other scheduling algorithms for hands-on learning.
- Designed a **graphical user interface (GUI)** using **Tkinter** and enhanced visualization with **Pillow**.

Snap Notes (Jun 2024) [Live](#) | [GitHub](#) (React.JS)

- Developed a **quick note-taking web app** allowing users to **create, delete, search, and update notes**.
- Leveraged **local storage** to ensure **data persistence** and accessibility across browser sessions.
- Enhanced app responsiveness by **30%** through **optimized state management** and **efficient rendering techniques**.

GreenThumbWeather (Dec 2023) [Live](#) | [GitHub](#) (HTML, CSS, JavaScript)

- Built an **API-integrated platform** that provides **real-time weather forecasts, agricultural news, and query support** using **weather, news, and Wikipedia APIs**.
- Designed a **responsive UI** with **HTML, CSS, and JavaScript**, ensuring a seamless user experience across devices.
- Implemented **API fetching** to deliver **real-time weather insights** and **agricultural information**.

TECHNICAL SKILLS

Languages: C, C++, JavaScript, Python

Backend: Node.JS, Express.JS, REST APIs

Frontend: React.JS, Three.JS, TailwindCSS, HTML, CSS, Bootstrap

Databases: MongoDB, MySQL

Developer Tools: Postman, VS Code, Git, GitHub

CERTIFICATIONS

- MERN Stack Web Development Bootcamp – CodeHelp (Jun 2024 - Nov 2024) [Certificate](#)
- Google Cloud Computing Foundation – NPTEL (Jul 2023 - Oct 2023) [Certificate](#)

RELEVANT COURSEWORK

- Data Structures
- Algorithms
- Operating Systems
- Database Management Systems

ALGORITHMIC ACHIEVEMENTS

- Achieved a ranking of **2,280 out of 35,000+** participants in LeetCode Weekly Contest 401. [Link](#)
- Achieved a **rating of 1,700** on LeetCode, placing in the **top 12%** of users. [Link](#)
- solved **800+ algorithmic problems** across multiple coding platforms.