

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

VHerbs (Feb 2025 - Apr 2025) [Live](#) | [GitHub](#) (Node.JS, Express.JS, React.JS, MongoDB, Three.JS, TailwindCSS)

- Developed a web platform showcasing medicinal plants with detailed botanical data, use cases, and cultivation methods.
- Integrated 3D models for all plants, enabling 360° rotation, zoom, and immersive interaction.
- Embedded a Gemini-powered chatbot, achieving over 90% user query resolution in under 3 seconds.

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

- Built a full-stack EdTech platform, enabling users to create, sell, and purchase educational content.
- Implemented secure login with JWT and RBAC, reducing unauthorized access attempts by 100%.
- Integrated Razorpay for payments, maintaining a less than 1% transaction failure rate.

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

- Created an interactive CPU Scheduling Simulator, enhancing learning effectiveness by over 60% through real-time algorithm visualization.
- Developed and integrated 6+ CPU scheduling algorithms including FCFS, SJF, SRTF, etc.
- Designed an interactive GUI using Tkinter and enhanced real-time visualization with Pillow.

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

- Built an API-integrated platform that provides real-time weather forecasts, agricultural news, and query support.
- Utilized OpenWeather, News, and Wikipedia APIs to deliver real-time insights, reducing user search time for agricultural data by over 40%.
- Designed a seamless UI for desktop and mobile, ensuring 100% cross-device compatibility.

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.