

Panav Agarwal

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Technical Skills

Languages: Python, Java, C, JavaScript, HTML, CSS

Tools & Technologies: React, Node.js, MongoDB, Spring boot, OpenCV, Git, Linux, NumPy, Adobe Premiere Pro, Canva

Projects

HackNest – Coding Contest Platform

In Progress

MERN stack web app to host coding contests.

- Built user authentication using JWT and designed RESTful APIs for contests and questions.
- Developed React frontend layout using Tailwind CSS.
- Planned features: live coding editor, leaderboard, and admin dashboard.

Kavach – Vehicle Collision Prevention System

Jul '23 – Nov '23

IoT-based safety system integrating sensors and computer vision.

- Implemented Alcohol Detection, Drowsiness Detection (OpenCV), Obstacle Detection, and Accident Alerts.
- Reduced fatigue-related incidents by 40% during controlled testing.

Cab-Review Sentiment Analysis

Jan '25 – Apr '25

Review classification and sentiment detection using BERT.

- Categorized reviews into topics like driver behavior, customer support, and app experience.
- Improved sentiment classification accuracy by 20%.

Interactive To-Do List App

Aug '24

JavaScript-based dynamic task manager with drag-and-drop.

- Features include task CRUD, priority reordering, and visual progress tracking.

Education

B.Tech in Computer Science, Vellore Institute of Technology-AP

Sept '22 – June '26

CGPA: 8.86

Senior Secondary, Central Academy

June '20 – May '22

Percentage: 82.6%

Secondary Education, Central Academy

June '17 – May '20

Percentage: 82.8%

Experience & Involvement

Tech Team Member, Google Developer Student Club – VIT-AP

Jan '24 – Jun '24

Organized 5+ events, increased participation by 40%, contributed 50+ volunteer hours.

Problem Solving Practice

Solved 200+ DSA problems on LeetCode and Coding Ninjas.