

Gourav Sharma

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Summary

Dedicated Computer Science freshman with hands-on experience in web development projects that solve real-world problems. Passionate about exploring emerging technologies such as Artificial Intelligence and Machine Learning.

EDUCATION

University of Texas at Dallas

Aug 2025 - May 2029

Bachelor of Science in Computer Science

GPA - 3.86

SKILLS

Languages - Python , C++ , Java , JavaScript , TypeScript.

Web development - HTML, CSS , Tailwind CSS , React , Responsive Design & Accessibility , NodeJS , SQL .

Version Control / Collaboration: Git , Github

Data Science and Machine Learning - NumPy, Pandas, Matplotlib, Seaborn, SciPy , Scikit-learn.

PROJECTS

Gesture-Math

October 2025 - November 2025

- Developed an interactive system that captures fingertip gestures to draw, recognize, and solve math expressions with step-by-step AI explanations.
- Built a Python Flask backend integrated with AI for equation recognition and solving derivative , integrals , graph generation and detailed solution steps.
- Implemented real-time hand tracking using MediaPipe and OpenCV, stabilizing movements with smoothing filters, stroke segmentation, and frame consistency checks.
- Designed algorithms to merge strokes, interpolate missing frames, and optimize performance for responsive real-time interactions
- Created a lightweight HTML/JS frontend to render strokes , display solutions and graphs, and communicate efficiently with the backend.

EduTrackr

April 2025 - November 2025

- Developed a React based student productivity web app to manage classes , assignments , calendar , internship application tracker and other college related activities.
- Implemented a dynamic GPA calculator using assignments weightages and credit hours, with fallback to manual grades.
- Integrated firebase backend to secure with authentication including option to sign-in with google and cloud storage for secure , cross-device data management.
- Designed a responsive and intuitive UI with interactive buttons, forms, validation and seamless navigation across all modules.

INTERESTS

- Machine Learning & AI Integration – Building intelligent systems, integrating AI models/APIs into projects, and exploring data-driven solutions.
- Software & Web Development – Full-stack development, creating responsive and user-friendly web applications, and implementing scalable backend systems.
- Computer Science Foundations – Data structures, algorithms, and solving complex programming challenges to build efficient solutions.