



EDUCATION

Year	Degree/Exam	Institute	CGPA/Percentage
2026	B.Tech and M.Tech in Mechanical Engineering	Indian Institute of Technology Kharagpur	8.51
2021	Class XII, CBSE	Shree Krishna International School, Malipada	73.4%
2019	Class X, ICSE	Happy Home School, Charampa	94.67%

INTERNSHIPS

Frontend Development Intern | SV CodeTech Solutions May'25 - July'25

- Contributed to developing a feature-rich travel booking platform, improving core functionalities and enhancing user satisfaction effectively.
- Built responsive UI screens supporting hotel searches, detailed listings, and complete booking workflows across various devices.
- Implemented reusable components including forms, filters, cards, navigation menus to streamline development & maintain consistent design.
- Integrated frontend modules with backend APIs enabling real-time pricing updates, accurate availability data, and smooth interactions.
- Collaborated with teammates to refine user flows, optimize interface behavior, and significantly enhance the platform's user experience.

PROJECTS

Token Trading Table - Frontend Engineering Project | Eterna Labs Nov'25

- Built a pixel-perfect, high-performance replica of Axiom Trade's token discovery table with advanced real-time interaction features.
- Developed a fully responsive token-trading table replicating Axiom Trade's UI with <2px visual deviation, validated using regression tools.
- Implemented advanced interactions including popovers, tooltips, modals, hover effects, click actions, and full column-wise sorting capabilities.
- Integrated price updates using a WebSocket mock with color transitions, alongside skeleton, shimmer, and progressive loading states.
- Built using Next.js 14, TypeScript (strict mode), Tailwind CSS, Redux Toolkit, React Query, and shadcn/ui for accessible, robust components.
- Achieved <100ms interactions through memoized components, atomic architecture, hooks, optimized rendering with no layout shifts.
- Ensured reliability with error boundaries, typing, documented logic, and a Lighthouse performance score of 90 on mobile and desktop.
- Delivered all requirements including Vercel deployment, GitHub repository with commits, responsive 320px layout, and a demo video.
- Link to repository is <https://github.com/sangram-sethi/Axiom-pulse.git>

ProblemFinder - Programming Problem Search Engine | Frontend Project April'24

- Developed a powerful search engine with responsive interfaces using HTML, CSS, Bootstrap, JavaScript for smooth cross-device performance.
- Utilized Django templates to dynamically render search results, problem details, interactive sections, ensuring a seamless user experience.
- Implemented robust search functionality with filters for tags, difficulty, and platforms, enabling highly precise and efficient problem discovery.
- Added clean pagination and organized metadata to improve readability, intuitive navigation, and overall usability across large result sets.
- Collaborated with backend developers to integrate APIs, enhancing data flow, optimizing layouts for faster, smoother problem exploration.
- Link to repository is <https://github.com/sangram-sethi/ProblemFinder.git>

YelpCamp - Campground Review Web App | Full - Stack Project Jan'24 - May'24

- Built a full-stack campground review platform with secure authentication, interactive maps, responsive user-generated review features.
- Developed RESTful APIs using Node.js and Express, supporting campground listings, user reviews, and key interaction workflows.
- Designed responsive interfaces using EJS templates, partials, reusable components, ensuring consistent rendering and smooth UI behavior.
- Utilized MongoDB for scalable data storage while integrating Mapbox for location-based discovery, detailed visualizations, intuitive navigation.
- Strengthened security against injections and XSS, deployed on Render.com, ensured production-ready stability through sanitization & testing.
- Link to repository is <https://github.com/sangram-sethi/YelpCamp.git>

Portfolio: <https://sangramsethi.vercel.app/>

SKILLS AND EXPERTISE

- Programming Languages:** C++, C, JavaScript, MATLAB, HTML, CSS, SQL
- Frameworks and Libraries:** Next.js, React.js, Node.js, Express.js, Passport.js, MongoDB, Tailwind CSS, Bootstrap, Vite, git
- Software and Utilities:** FreeCAD, AutoCAD, LTSpice, VS code, Code Blocks Soft, LabVIEW
- Skills:** Time Management, TeamWork, Communication, Problem Solving, Leadership, Full Stack Developer

COURSEWORK INFORMATION

- Programming:** Programming and Data Structure, DSA, Web Development
- Mathematics:** Advanced Calculus, Linear Algebra, Partial Differential Equations, Transform Calculus, Operation Research, Numerical Analysis
- Mechanical:** Mechanics Of Solids, Dynamics, Kinematics and Kinetics Of Machines, Design Of Machine Elements, Fluid Mechanics, Basic Thermodynamics, Applied Thermodynamics, Machine and Machine Tools, Air Conditioning, Additive Manufacturing, Machinery Fault Diagnostics And Signal Processing, Computer Integrated Manufacturing, Robotics, Fundamentals Of Electronic Packaging

AWARDS AND ACHIEVEMENTS

- Secured AIR 886 in JEE Advanced 2021 during highly competitive national-level engineering examination.
- Secured AIR 976 in JEE Mains during highly competitive national-level engineering examination.
- Secured 1st Rank: built an innovative self - mobilising earthquake bunker prototype for emergency deployment.

EXTRA CURRICULAR ACTIVITIES

- Part of six member hall chess team for GC 2023, with us winning the bronze medal in the tournament.