

Pranjal Srivastava

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PROFESSIONAL SUMMARY

Third-year Computer Science student (CGPA: 8.73/10) at Bennett University with hands-on experience in frontend and backend development, delivering fast, scalable, and user-centric web applications. Skilled in building intuitive UI, secure server-side logic, and end-to-end system integration. Driven to apply engineering skills to solve real-world problems in high-impact tech teams.

EDUCATION

Bennett University
Bachelor of Technology, Computer Science (DevOps Minor), CGPA: 8.73/10.0
• Relevant Coursework: Data Structures & Algorithms; Database Systems; Operating Systems; Software Engineering

Greater Noida, India
August 2023 – Present

TECHNICAL SKILLS

Programming & Scripting: C++, Python, JavaScript, TypeScript, SQL
Frameworks & Tools: FastAPI, Django, Express.js, GitHub Actions
Databases & Analytics: PostgreSQL, MySQL, MongoDB, Pandas, NumPy
Cloud & Infrastructure: AWS (EC2, S3, RDS)

EXPERIENCE

Frontend & Backend Developer (Trainee)
Research Design & Standards Organisation (RDSO), Indian Railways

June 2024 – August 2024
Lucknow, India

- Developed a web-based Train Braking Monitoring System for visualizing real-time braking performance, fault detection, and system diagnostics for railway engineers
- Built responsive frontend dashboards using HTML, CSS, JavaScript, and React to display live braking metrics, pressure levels, and safety alerts in an intuitive UI
- Designed and implemented backend APIs to process braking data, validate safety thresholds, and manage train system logs, ensuring reliable and accurate data flow
- Collaborated with RDSO engineers and student teams to analyze railway safety requirements and translate them into functional software modules
- Optimized data handling and UI rendering, improving system response time and usability for real-time operational monitoring

PROJECTS

Blue Carbon MRV System | *Web Development, Blockchain, Environmental Tech*
September 2025

- Developed a Monitoring, Reporting, and Verification (MRV) web platform for tracking blue carbon ecosystems such as mangroves and coastal wetlands to support climate impact assessment
- Built interactive frontend dashboards to visualize carbon sequestration, biomass data, and project performance metrics for environmental analysts and policymakers
- Implemented backend services to collect, process, and validate environmental data, enabling accurate reporting and audit-ready carbon credit calculations
- Designed a data management pipeline to ensure transparency, traceability, and compliance with climate reporting standards for carbon offset projects
- Enabled real-time monitoring and historical data analysis to support sustainability decision-making and environmental impact evaluation

Pathshala – Online Learning Management System | *Full-Stack Web Development, Education Tech*
January 2024

- Developed a full-stack web platform for managing online classes, student enrollment, and course content for digital learning environments
- Built responsive frontend interfaces for students and instructors to access lectures, assignments, and progress dashboards
- Implemented backend services to handle authentication, course management, and student data securely and efficiently
- Designed database schemas to store user profiles, course materials, and performance records with reliable data consistency
- Enabled real-time updates for class schedules, assignments, and announcements to improve learning experience and engagement

LEADERSHIP & ACTIVITIES

- Participated in multiple national and intra-college hackathons, gaining hands-on experience in rapid prototyping, full-stack development, and team-based problem solving
- Qualified for **Round 2 of Smart India Hackathon (SIH)**, with the team ranked in the **Top 100** in college
- Competed in several intra-university hackathons, building end-to-end software solutions under strict time constraints
- Collaborated with cross-functional teams including designers and domain experts to convert problem statements into working technical solutions
- Regularly explore emerging technologies and apply them in hackathon and project-based environments to build real-world, impact-driven applications