

KAUSTUBH PRASHANT BAGALE

Full Stack Developer (MERN & Next.js)

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PROFESSIONAL SUMMARY

Final-year Computer Science Engineering student with expertise in MERN stack and DevOps. Engineered a university convocation platform handling 100,000 concurrent users and an admission portal serving 1,000+ students. Passionate about solving complex scalability challenges, optimizing back-end infrastructure, and delivering seamless user experiences.

EDUCATION

B.Tech in Computer Science Engineering

Parul University, Vadodara, Gujarat

2022 – 2026

CGPA: 7.0/10.0

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, C++
- **Frontend:** React.js, Next.js, Tailwind CSS, Vite, HTML5, CSS3
- **Backend:** Node.js, Express.js, RESTful APIs
- **Databases:** MongoDB, Firebase
- **Tools & DevOps:** Nginx, Git, GitHub, Vercel, Docker, Postman, FFmpeg
- **Soft Skills:** Problem-Solving, Team Collaboration, Agile Methodology, Time Management, Adaptability

KEY PROJECTS

Personal Developer Portfolio

Jan 2026

Tech Stack: Next.js, Tailwind CSS, Vercel

Live URL: kaustubhbagale.me

- Built a modern, high-performance personal website to showcase technical projects, professional experience, and skills.
- **Technical Achievement:** Implemented a fully responsive design with optimized assets and server-side rendering, ensuring fast load times and high SEO rankings.

Parul University Convocation Portal

Oct 2025 – Dec 2025

Tech Stack: React.js, Node.js, Nginx, DevOps

Live URL: convocation.paruluniversity.ac.in

- Architected and developed a comprehensive convocation management platform as the sole developer.
- **Challenge:** The system needed to support massive traffic spikes during the live event.
- **Solution:** Optimized server infrastructure using **Nginx** reverse proxying and load balancing strategies.
- **Result:** Successfully handled **100,000 concurrent users** with zero downtime while managing complex workflows for both administration and attendees.

Live University Admission Portal

July 2025 – Oct 2025

Tech Stack: MERN Stack (MongoDB, Express, React, Node), Vercel Live URL: parul-student-hub.vercel.app

- Engineered a full-stack portal serving 1,000+ first-year students to manage academic data.
- **Challenge:** Manual data entry by faculty was prone to errors and time-consuming.
- **Solution:** Implemented a student-led verification workflow, allowing users to cross-check and update their own information.
- **Result:** Significantly reduced administrative workload and improved data accuracy.

Movieverse API

2025

Tech Stack: Express.js, MongoDB, JWT

- Developed a scalable RESTful API for a movie information application.
- **Challenge:** Ensuring secure data access and scalable architecture for future expansion.
- **Solution:** Integrated **JWT** for stateless authentication and adopted a microservices-inspired structure.
- **Result:** Achieved robust security with bcrypt hashing and a maintainable codebase for future feature integration.

Spotify Music Downloader

2025

Tech Stack: React, Express.js, yt-dlp, FFmpeg

- Built a full-stack application enabling users to download high-quality audio from Spotify URLs.
- **Technical Achievement:** Successfully interfaced with system-level tools (**yt-dlp**, **FFmpeg**) via a Node.js backend to process media streams efficiently.

AI-Powered README Generator

2025

Tech Stack: Next.js, Tailwind CSS, AI Integration

- Developed a tool to accelerate documentation creation for software repositories.
- **Technical Achievement:** Integrated AI to parse project structures and suggest relevant content, reducing manual documentation time for developers.