

KAUSTUBH PRASHANT BAGALE

Full Stack Developer (MERN & Next.js)

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PROFESSIONAL SUMMARY

Final-year Computer Science Engineering student specializing in **Scalability** and **Cloud Computing** principles. Proven expertise in the MERN stack and DevOps, successfully architecting high-availability systems handling **100,000 concurrent users**. Passionate about building robust **Microservices**, optimizing backend performance, and delivering secure, user-centric web solutions.

EDUCATION

B.Tech in Computer Science Engineering

2022 – Present

Parul University, Vadodara, Gujarat

Current CGPA: 7.05 / 10.0

TECHNICAL SKILLS

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

KEY PROJECTS

Parul University Convocation Portal

Oct 2024 – Dec 2024

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

- Architected a high-performance convocation management platform from the ground up as the sole developer.
- Scalability & DevOps:** Configured **Nginx** for efficient load balancing, enabling the system to withstand **100,000 concurrent users** with **99.9% uptime** during the live event.
- Designed a dual-interface system to streamline complex management workflows, ensuring zero latency for administrative tasks.
- Live URL: <https://convocation.paruluniversity.ac.in>

Live University Admission Portal

Jan 2024 – May 2024

Tech Stack: MERN Stack (MongoDB, Express, React, Node), Vercel

- Engineered a full-stack portal serving **1000+ first-year students**, handling critical academic data storage.
- Optimization:** Implemented a self-service verification workflow, reducing administrative data entry time by approximately **40%** and eliminating manual errors.
- Designed a responsive, mobile-first UI using Tailwind CSS to ensure accessibility across all devices.
- Live URL: parul-student-hub.vercel.app

Client Portfolio Website

Jan 2025

Tech Stack: Next.js, Tailwind CSS, Vercel

- Designed and developed a fully responsive, custom portfolio website for a client to showcase their professional work.
- Performance Optimization:** Achieved a perfect **100 Lighthouse Performance score** by implementing server-side rendering and efficient asset optimization.

- Delivered a pixel-perfect, mobile-first interface ensuring seamless navigation and cross-browser compatibility.
- Live URL: nishtha-adalja.vercel.app

Movieverse API

2024

Tech Stack: Express.js, MongoDB, JWT

- Developed a robust backend API using a **Microservices-inspired architecture** to ensure loose coupling and maintainability.
- **Security:** Integrated JWT (JSON Web Tokens) for stateless authentication and bcrypt for secure password hashing.
- Optimized database queries for faster response times, ensuring scalable data retrieval for the front-end.

Spotify Music Downloader

2024

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

- Built a full-stack media processing application interfacing with system-level tools (**yt-dlp**, **FFmpeg**) via Node.js.
- **Performance:** Optimized backend processing streams to handle high-quality audio conversion with minimal server latency.

AI-Powered README Generator

2024

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

- Developed a developer-tooling application leveraging AI to parse project structures.
- **Impact:** Reduced documentation setup time for developers by automating section generation and content suggestions.