

Shubham Mishra

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OBJECTIVE

Finished my **Computer Science Engineering** degree with a **9.3 CGPA**, but most of what I know comes from building stuff on my own. I've made AI tools, secure file-sharing systems, and a bunch of full-stack projects just because I was curious to see if I could. I work a lot with React, Next.js, Node.js, and databases, and I'm quick to pick up new tech when a project needs it. Right now, I'm looking for a place where I can keep building real things, learn from people who know more than me, and make my work actually useful.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, SQL

Frontend: React.js, Next.js, Tailwind CSS, HTML/CSS

Backend: Node.js, Firebase, MongoDB, SQLite

Tools & Frameworks: Electron.js, CryptoJS, Framer Motion, Cloudinary

Concepts: TCP/UDP networking, AES/RSA encryption, Peer-to-Peer protocols, Data Structures & Algorithms

Soft Skills: Problem-solving, teamwork, adaptability, and clear communication

PROJECTS

StenoMaster - Web Platform for Stenography Training | 2025

Built a platform for shorthand teachers and students to practice and track progress.

- Added **role-based login with MongoDB** so teachers could create student accounts easily.
- Used **Cloudinary** to store and manage shorthand assignments as images.
- **Firebase** handled storing results and showing **real-time performance** data.
- Wrote a **custom string comparison logic** to check typed input against the correct text.
- Built with **Next.js** for clean routing and fast page loads.
- Designed it so teachers could manage their own classes **without a central admin**.

DropShare - Secure P2P File Sharing App | 2025

Made a file transfer system that works fast and securely without a central server.

- **React Native** app for the interface, so it runs smoothly on mobile.
- Node.js handled **TCP socket** connections, handshake, and **UDP data chunks**.
- **SQLite** stored checkpoints so interrupted transfers could resume.
- Files were encrypted with **AES-256-CBC** and keys exchanged with **RSA-2048**.
- Solved packet loss in UDP using timed retries and **adjusting chunk sizes automatically**.

Portfolio Website | 2024

A personal portfolio showcasing technical skills, projects, and research work.

- **Next.js** + **Tailwind CSS** for the main structure.
- Added animations with **Three.js** and **Framer Motion** for a more interactive feel.
- Used **lazy loading** to cut load times by 60% and make it smoother on slower devices.
- Applied SEO techniques for better visibility.

FrameMagic - AI-Powered Image Editor | 2023

A web-based AI image manipulation tool.

- **Next.js** for the interface and routing.
- **Node.js** backend for handling requests and sending results back.
- **Cloudinary AI** APIs for background removal, recoloring, and image restoration.

CodeCraft - Real-Time Web Code Editor | 2023

A simple, fast HTML/CSS/JS editor that runs in the browser.

- Implemented live preview engine with **React.js**
- Used **LocalStorage** so code stayed even if the page refreshed.
- **Tailwind CSS** kept the UI lightweight and quick.

EDUCATION

Bachelor of Technology, Computer Science and Engineering

Guru Gobind Singh Indraprastha University, Delhi, India | 2021 - 2025 • CGPA : 9.3

12th & 10th (CBSE)

Kamal Model Sr. Sec School, Delhi, India

PUBLICATIONS

- **"A Secure and Efficient Cross-Platform P2P File Sharing System"**
Submitted for publication (2025). Highlights DropShare architecture, encryption techniques, and file transfer optimization.
- **"Image Manipulation Web Application: A Next.js Implementation"** – IJSRET, Vol. 10, Issue 6, 2024. Covers AI-based editing and performance improvements in a Next.js app. [<https://ijsret.com/?s=10.61137%2Fijsret.vol.10.issue6.348>]

ACHIEVEMENTS

- Published research in peer-reviewed journals (IJSRET, 2024)
- Built and deployed **6+ production-grade full-stack applications**
- Worked on multiple security-focused features like encryption, resume logic, and authentication layers