Sakshi Kumari

 Techie-Sakshi 📞 8423160418 in Sakshi Kumari ✉ kumarisakshi273@gmail.com

EDUCATION

Indian Institute of Technology (IIT) Patna   Patna, India
(B.Tech in Chemical Engineering **CPI: 7.82** *(current))*   *Nov 2022 - May 2026 (Expected)*
S.G. Public School   Chandauli, India
(AISSCE in PCM and Information Practices conducted by CBSE. **Percentage 83.4%**)   *April 2018 - March 2020*

PROJECTS

P2P File Sharing System | *ReactJS, NodeJS, ExpressJS, MongoDB* | *May 2025*   **Source Code**
- Designed and developed a secure P2P file sharing system with user registration, role-based access control, and file categorization (e.g., documents, images, videos).
- Integrated MongoDB Atlas to manage user metadata, transfer logs, and session management, achieving ¡1s database query latency.
- Reduced file handshake and setup time by optimizing the signaling protocol, resulting in a 30–40% improvement in peer connection time.

Time Capsule Web App |*Next.js, Firebase, Cloudinary, EmailJS* | *May 2025*   **Website**
- Engineered a full-stack app enabling users to create and schedule 50+ multimedia capsules, with real-time unlock via countdown timers.
- Configured Firebase Auth & Firestore to manage login and dynamic capsule rendering with up to 3 file types per entry.
- Automated 100% of email reminders on unlock using EmailJS with conditional triggers and secured .env deployment on Vercel.

ACHIEVEMENTS

- Attained the Specialist rank on Codeforces (peak rating: **1477**), demonstrating strong command over data structures and algorithms for crafting optimized solutions.   **Profile link**
- Secured a global rank of **1474** in **Codeforces Round 1002 (Div. 2) among 20,000+ participants.**
- Ranked in the **Top 1.2%** (407 out of 34,000 participants) in **Google Girl Hackathon 2024**, demonstrating expertise in applied research and innovative solution development.
- Secured **Rank 1** in the junior category and **Rank 14** overall out of **200+** participants in **Coderush by AlgoUniversity 2024**.
- Attended 8 mentoring sessions with Microsoft professionals, enhancing leadership and teamwork skills, resulting in a 25% improvement in team discussions and presentations.
- Awarded the **Panasonic Ratti Chhatr Scholarship**, being one of 30 students selected from all IITs to represent IIT Patna. Received INR 42,500 yearly to support academic expenses.   **Certificate**
- Recognized as one of the 5,000 nationwide recipients of **Reliance Foundation Undergraduate Scholarship 2022**, awarded INR 50,000 annually for academic scholarly growth.   **Certificate**

CERTIFICATIONS

- **Google Student Upskilling Program** – Certificate of Completion for a curated training in coding, problem-solving, and SDE career preparation, 2025   **Certificate**
- Mastered Cloud Computing and distributed software concepts through Google Cloud Study Jam.   **Certificate**

SKILLS

- **Languages and Frameworks**: C/C++, Python, JavaScript, HTML, CSS, React.js, Next.js, Node.js, Express.js, MongoDB
- **Libraries and Tools:** Pandas, NumPy, Streamlit, SQL, Git, GitHub
- **Concepts:** Data Structures Algorithms, Scalable Systems
- **Platforms:** VS Code, Unix/Linux

COURSEWORK

- **Core Courses:** Programming & Data Structure, Data Science Introduction, Introduction to Python Programming
- **Mathematics:** Linear Algebra, ODE & PDE, Elementary Analysis, Real Analysis, Complex Analysis