ARITRA KUMAR

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in LinkedIn ⚙ GitHub 🌐 Portfolio </> LeetCode

EDUCATION

Bachelor of Engg. in Information Technology - Jadavpur University, Kolkata　　📅 **Aug 2021 - June 2025**

- CGPA: **8.6/10**

TECHNICAL SKILLS

- **Programming Languages:** C++, Java, JavaScript, SQL.
- **Frontend Technologies:** HTML, CSS, Bootstrap, Tailwind CSS, Vanilla JS, React.js, Redux-Toolkit.
- **Backend Technologies:** Node.js, Express.js, REST API, JWT, Socket.io, Mongoose ODM.
- **Databases:** MongoDB, MySQL, Oracle DB.
- **Version Control & Collaboration:** Git & GitHub.
- **Dev & Deploy Tools:** Postman, Docker, Kubernetes, Vercel, Render.
- **CS Fundamentals:** Operating System (**OS**), Database Management Systems (**DBMS**), Object Oriented Programming (**OOP**), Data Structures and Algorithms (**DSA**), Computer Networks (**CN**).

PROJECTS

DriveShare - A Google Drive Utility　|　**React.js, React-OAuth, Node.js, Express.js, MongoDB**　　Live ⚙

- Designed and implemented secure user authentication using Google OAuth2.0, enhancing account safety and convenience.
- Built a system for creating multiple Google Drive upload targets with folder-specific IDs.
- Developed a feature for anonymous file uploads through shared links, eliminating the need for user Google accounts.
- Streamlined admin management by integrating controls to grant or revoke permissions for anonymous upload targets.

Blogger - A Blogging Platform　|　**React.js, Redux-Toolkit, Node.js, Express.js, MongoDB**　　Live ⚙

- Engineered JWT-based authentication to secure user data and maintain session integrity.
- Designed functionality for content creation, search, and publishing.
- Built user profiles showcasing content posting history, enabling social interactions like follow and unfollow features.
- Enhanced user engagement by delivering personalized feeds based on the activity of followed users.

CodeSync - A Realtime Collaborative Code Editor　|　**React.js, Node.js, Express.js, Socket.io**　　Live ⚙

- Built a collaborative coding environment with real-time synchronization using Socket.io and Codemirror.
- Enabled dynamic room creation with unique room IDs, supporting up to 32 participants per room using Socket.io-adapter.
- Implemented features like connected user lists and typing indicators, boosting collaboration efficiency.
- Ensured reliability by synchronizing code edits across all participants and providing real-time notifications for seamless collaboration.

InShare - A File Sharing Platform　|　**Tailwind CSS, Vanilla JS, Node.js, Express.js, MongoDB**　　Live ⚙

- Developed a file-sharing solution enabling uploads of files up to 1GB without requiring user registration.
- Added link-based file sharing for remote downloads, increasing accessibility by 50
- Integrated optional email notifications to receivers for download links, improving user communication.
- Implemented a 24-hour link expiration mechanism, reducing server storage load and enhancing security for shared files.

POSITION OF RESPONSIBILITY

- **Mentor of Jadavpur University's Code Club (JUCC)**

  As a core member of JUCC, I conducted sessions on Data Structures & Algorithms, organized competitive programming contests, and coordinated web development hackathons to foster interactive learning and collaboration.