Aritra Kumar

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■ Hooghly, West Bengal, India

■ LinkedIn

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■ Portfolio

LeetCode

EDUCATION

Bachelor of Engg. in Information Technology - Jadavpur University, Kolkata

ä Aug 2021 - June 2025

• CGPA: 8.6/10

TECHNICAL SKILLS

- Programming Languages: C, 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 & Caching: MongoDB, MySQL, Oracle DB, Redis.
- Version Control & Collaboration: Git & GitHub.
- Dev & Deploy Tools: Postman, Docker, Vercel, Render, Netlify, Heroku.
- 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

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- Implemented secure authentication using Google OAuth 2.0 with react-oauth to enhance account safety and convenience.
- Designed a system for Google Drive upload targets with folder IDs mapped to UUIDs in shared links for abstraction.
- Enabled anonymous file uploads via shared links using multer for backend handling and Google Drive APIs.
- Integrated controls for granting and revoking permissions on anonymous upload targets to manage access settings.

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

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- Developed robust JWT-based authentication to secure user data, ensure session integrity, and prevent unauthorized access.
- Designed content creation, posting, and searching in MongoDB using the KMP algorithm for string matching.
- Built user profiles showcasing content posting history and enabling social interactions such as follow and unfollow features.
- Delivered personalized feeds and recent activity of followed users via MongoDB aggregation pipelines.

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

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- Built a real-time collaborative coding platform using Socket.io and CodeMirror with support for multiple languages and themes.
- Enabled dynamic room creation with unique IDs via UUID and efficient management with Socket.io-adapter.
- Added user lists and typing indicators using debounce techniques to enhance collaboration.
- Synchronized edits in real-time using Socket.io with notifications via React Hot Toast for seamless teamwork.

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

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- Built a remote file-sharing platform using Multer for file handling, Cloudinary for cloud storage, and MongoDB.
- Implemented unique download links using UUID and dynamic download pages rendered with EJS for seamless file access.
- Added email notifications using Nodemailer and Mailgun SMTP to enhance communication with recipients.
- Automated 24-hour link expiration using Render's Cron Job scheduler for secure and efficient storage management.

PRACTICE PROJECT

ChitChat - A Simple Group Chat Room | HTML, CSS, Vanilla JS, Node.js, Express.js, Socket.io

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- Built a group chat app supporting create, join, leave, and real-time user activity notifications in a single room.
- Used Socket.io for tracking real-time activity, debounce for optimized typing indicators, and Socket.io-adapter for live members.
- Designed a responsive UI with HTML, CSS, JavaScript, and containerized the app using Docker for streamlined deployment.