

Sayan Banerjee

B.Tech (CST) — Full Stack Developer

sayankb.001@gmail.com | (+91) 9800413284 | Kolkata, India

[Portfolio](#) | [GitHub](#) | [LinkedIn](#) | [LeetCode](#)

OBJECTIVE

Motivated Computer Science student with strong skills in full stack web development, seeking an entry-level software engineering role to apply hands-on project experience and problem-solving abilities.

EDUCATION

- Narula Institute of Technology** Kolkata, West Bengal
BTech in Computer Science and Technology; CGPA: 8.1 Jul 2023 – Jun 2026
- Berhampore Polytechnic College** Berhampore, West Bengal
Diploma in Computer Science and Technology; GPA: 8.9 Jul 2020 – Jun 2023
- Gorabazar Iswar Chandra Institution** Berhampore, West Bengal
Secondary Education (Class X); Percentage: 81.4% Jan 2019 – Mar 2020

EXPERIENCE

- 10X Academy** Remote
Frontend Mentor (Intern) Jan 2023 – Jun 2023
 - Mentored 50+ learners:** Guided beginners on HTML, CSS, JavaScript, and React; provided code reviews and technical support.
 - Facilitated learning:** Helped students debug issues and adopt best practices in responsive web design.

PROJECTS

- Meet Cam - Real-Time Video Conferencing Platform** [Live Demo](#) | [GitHub](#)
 - Built WebRTC peer-to-peer video calling with Socket.io signaling, real-time chat, screen sharing for unlimited participants.
 - Implemented host controls (mute/kick users, room lock) with JWT auth, MongoDB persistence, Express.js middleware.
 - Optimized media streaming with adaptive bitrate, connection fallback, responsive Bootstrap UI, mobile compatibility.
- YouTube Clone - Scalable Video Streaming Backend API** [Live Demo](#) | [GitHub](#)
 - Architected RESTful API with 50+ endpoints for video uploads, comments, likes, subscriptions using Node.js/Express.js.
 - Implemented JWT auth, bcrypt hashing, rate limiting, MongoDB aggregation pipelines, database indexing for 10x optimization.
 - Integrated Cloudinary media uploads, Multer middleware, comprehensive error handling, Postman API documentation.
- Mega Blog - Modern Content Management System** [Developing] [Live Demo](#) | [GitHub](#)
 - Built React SPA with Redux Toolkit, protected routes, react-hook-form validation, TinyMCE editor, Tailwind CSS.
 - Integrated Appwrite BaaS for auth/storage; implemented CRUD operations, infinite scroll, search/filter, draft workflow.
 - Developed responsive mobile-first design, dark/light themes, accessibility (ARIA), error boundaries, code splitting.

TECHNICAL SKILLS

- Programming Languages:** JavaScript (ES6+), Java, HTML5, CSS3, SQL
- Frontend Technologies:** React.js, Redux Toolkit, Tailwind CSS, Bootstrap, Responsive Design, SPA
- Backend Technologies:** Node.js, Express.js, RESTful APIs, Socket.io, WebRTC, Middleware
- Databases & Storage:** MongoDB, MySQL, Mongoose ODM, Appwrite, Cloudinary, Database Indexing
- Authentication & Security:** JWT, Bcrypt, Role-based Access Control, Rate Limiting, CORS
- Tools & DevOps:** Git, GitHub, VS Code, Vite, Postman, Vercel, Render, npm/yarn
- Core Concepts:** Data Structures & Algorithms, OOP, DBMS, Computer Networks, Operating Systems

ACHIEVEMENTS & CERTIFICATIONS

- Programming Practice:** Solved 300+ problems on [LeetCode](#) and completed DSA programs.
- JavaScript Expertise:** Strong grasp of JavaScript fundamentals, ES6+, and async programming. [GitHub: Advance JavaScript](#)

EXTRACURRICULAR ACTIVITIES

- Martial Arts & Content Creation:** Karate practitioner since 2017; YouTube content creator.
- Public Speaking & Cultural Activities:** Debate and singing competitions, enhancing communication skills.