

ARITRA SARKAR

Kolkata, West Bengal, India

+91 6289982251 | Email | LinkedIn | GitHub | Portfolio

Codeforces | LeetCode | CodeChef

Education

Jadavpur University <i>B.E. in Information Technology</i>	Oct 2023 – Present <i>CGPA: 8.34</i>
Calcutta Boys' School <i>ISC</i>	2022 – 2023 <i>90%</i>
Calcutta Boys' School <i>ICSE</i>	2020 – 2021 <i>98%</i>

Projects

Frontend Engineer — Stealth Startup | *React, TypeScript, Tailwind, Zustand* **Dec 2025 – Present**

- Developing scalable, production-grade frontend systems for **customer-facing platforms** and **internal business dashboards**.
- Built modular, reusable UI components with strong focus on **maintainability, accessibility, and performance**.
- Implemented **form validation, schema enforcement, and type safety** to reduce runtime errors across releases.
- Collaborated closely with backend teams to integrate **API-driven interfaces** and handle edge cases gracefully.
- Actively participated in code reviews, debugging, and feature prioritization in a fast-paced environment.

AI Shopping Assistant | *TypeScript, NextJS, Tailwind, Prisma, Formidable* |   **July – August 2025**

- Designed and implemented a **full-stack, API-driven system** supporting text, image, and audio inputs.
- Built asynchronous workflows to keep UI responsive during long-running backend operations.
- Improved API response time by **40%** via profiling, optimized queries, and efficient request handling.
- Wrote structured API contracts and validated responses to support future automation and testing.

AritraDocs | *TypeScript, NextJS, Tailwind, Clerk, Liveblocks* |  **July – August 2024**

- Developed a real-time collaborative editor with multi-user synchronization and conflict handling.
- Implemented event-driven architecture achieving **sub-200ms latency** under concurrent usage.
- Focused on reliability, fault tolerance, and clean separation of concerns.

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, C++, SQL

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

Backend: REST APIs, Node.js basics, API Design, Authentication

Testing: Jest, Cypress, API testing fundamentals

DevOps & Tools: Git/GitHub, CI/CD, Linux fundamentals

Databases: PostgreSQL, MySQL, MongoDB

Concepts: OOP, DSA, Client–Server Architecture, Automation Basics

Achievements

- Codeforces peak rating **1444 (Specialist)** — strong analytical and problem-solving skills.
- CodeChef peak rating **1755 (3-star)**.
- **1st Place**, HackForge Hackathon — delivered a complete solution under strict deadlines.
- **RMO'19, INMO'22, INPhO'23** qualified.