

ARITRA SARKAR

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EDUCATION

B.Tech – Computer Science and Engineering July 2020 – June 2024
Techno Main Salt Lake, Kolkata CGPA: 8.12

SKILLS

Languages TypeScript, JavaScript, HTML, CSS
Frameworks React, Next.js, Node.js, TailwindCSS, React Native
AI OpenAI, Claude, Gemini, Vercel AI SDK
Tools Socket, SSE, Figma, MongoDB, Mongoose, Git, Firebase, Razorpay, Clerk, Postman

EXPERIENCE

ProdGain Dec 2024 – Present
Software Engineer *On-site*

- Built multi-agent orchestration systems with autonomous task delegation, memory sharing, and tool usage.
- Designed long-running AI workflow pipelines maintaining context across multi-hour agent conversations.
- Integrated OpenAI + Gemini Realtime for voice-driven task execution and automated research workflows.
- **Tech:** Next.js, TypeScript, TailwindCSS, Node.js, Vercel AI SDK, Socket, SSE, MongoDB, Mongoose

RESPAWN Apr 2024 – Nov 2024
Frontend Developer Intern *Remote*

- Built email client (AWS SNS + Nodemailer); integrated Razorpay payments and Bluedart courier APIs.
- **Tech:** React, Next.js, TypeScript, TailwindCSS

Tukidoo Dec 2023 – Nov 2024
Frontend Developer Intern *Remote*

- Founding frontend member; led dev pipeline setup, speech-to-text, Razorpay, Clerk auth, and classroom portal.
- **Tech:** React, Next.js, TailwindCSS, REST APIs, Clerk, Razorpay

BTST Oct 2023 – Jan 2024
Frontend Developer Intern *Remote*

- Built multi-step advisor platform with trade idea creation, dashboard UI, and reusable atomic components.
- **Tech:** React, Next.js, TailwindCSS, Docker

PROJECTS

SeamLift — Video Review & Collaboration Platform
Solo Full-Stack · Launched on Product Hunt

- Live platform used by real video editors for client feedback; TUS resumable uploads to Cloudflare R2, Modal/FFmpeg transcoding, and frame-accurate timestamped commenting.
- Dual payments (Razorpay INR + DODO USD); built full-stack solo end-to-end.
- **Tech:** Next.js, Hono, Drizzle ORM, Neon (PostgreSQL), Cloudflare R2, Modal, Firebase Auth, Razorpay, Resend

ExamHell — AI-Powered Multi-Agent Exam Automation
Personal Project

- Multi-agent pipeline (extraction, analysis, generation, scheduler) converting PDFs into structured exams with MCQs, T/F, fill-in-the-blanks, and difficulty-tagged questions.
- Question Bank with topic tagging, reusable collections, one-click scheduling, and quiz analytics UI.
- **Tech:** Next.js, Node.js, TypeScript, OpenAI, Vercel AI SDK, MongoDB, Mongoose