

BIJAN MURMU

SOFTWARE ENGINEER / SYSTEM ARCHITECT

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PROFILE

I am a Software Engineer based in Kolkata, India. My core focus is on building high-fidelity interfaces, algorithmic data processors, and resilient backend systems. I actively contribute to the open-source ecosystem, deeply valuing uncompromised technical architecture and the intentional removal of bloat. Every project is built with absolute precision.

EDUCATION

B.Tech in Information Technology

Techno Main Salt Lake, Kolkata | 2023 - 2027

High School (Science Stream)

Midnapore Collegiate School | 2014 - 2022

SELECTED PROJECTS

NULLDROP

Browser-based utility for high-fidelity subject isolation via state-of-the-art dichotomous image segmentation. Zero data retention.

Technologies: FASTAPI, PYTHON, REACT, REMBG

MDCLEAN

AST-powered markdown repair tool suite (CLI + Web) to instantly fix malformed output from AI chatbots and terminals.

Technologies: TYPESCRIPT, UNIFIED, AST, VITE

RAILNOVA

Automated headless scraping and data aggregation engine using Chromium and Cheerio for robust data processing.

Technologies: NEXT.JS, PUPPETEER, CHEERIO, RADIX

RAPIDPLAY

Modern YouTube playlist analyzer providing detailed duration statistics and optimal playback speed calculations.

Technologies: NEXT.JS, REACT, TYPESCRIPT, TAILWIND

TECHNICAL SKILLS

Frontend: React.js, Next.js, Framer Motion, Tailwind CSS, Three.js

Backend: Node.js, FastAPI, WebSockets, AST Parsers, Puppeteer

Databases: PostgreSQL, MongoDB, Redis, Supabase, Prisma

Systems & Cloud: TypeScript, Docker, AWS, Vercel, Linux