

BIRAJ SARKAR

[LinkedIn: biraj-sarkar](#) | [GitHub: @Biraj2004](#) | [Leetcode: iam_biraj](#)

[Portfolio: iambiraj.vercel.app](#) | birajsarkar67@gmail.com | [Mobile: +91 7550817403](tel:+917550817403)

TECHNICAL SKILLS

Languages	Java, JavaScript (ES6+), TypeScript, Python, C, SQL, HTML, CSS
Frontend	React.js, Next.js, Tailwind CSS, shadcn/ui, Radix UI, HTML5, CSS3
Backend	Node.js, Express.js, Flask (Python), REST API Design
Databases	MySQL, MongoDB, SQLite
DevTools	Git, GitHub, VS Code, Postman, ESLint, Linux
Deployment & CI	GitHub Actions, Vercel, Render, Cloudflare
Core Concepts	Data Structures & Algorithms, OOP, DBMS, System Design, OS, Computer Networking

EXPERIENCE

Frontend Developer & QA Intern · SRS Next Solve LLP (brainlea.com) Dec 2025 – Present
React.js, Tailwind CSS, TypeScript · Remote

- Delivered **15+ responsive UI components** for a production e-learning platform (ages 7–15), ensuring consistent design and usability across desktop, tablet, and mobile viewports.
- Conducted **systematic cross-browser and cross-device QA testing** across Chrome, Firefox, and Safari; logged **15+ reproducible bug reports** and collaborated with the dev team to resolve defects before deployment.

Web Development Intern · Prodigy InfoTech Nov 2024 - Dec 2024
HTML5, CSS3, JavaScript · Remote

- Built **5 responsive web projects** from scratch using HTML5, CSS3, and vanilla JavaScript, covering DOM manipulation, event-driven interactivity, and mobile-first layout patterns.

PROJECTS

Edu-Viewer PRO [Next.js](#) · [TypeScript](#) · [Python](#) · [Flask](#) · [SQLite](#) · [GitHub Actions](#) [Live](#) · [GitHub](#)

- Architected a **full-stack offline-first** educational content viewer with a Next.js/TypeScript frontend and Python/Flask REST API backend, enabling structured browsing of multi-course SQLite databases locally.
- Engineered a **zero-config single-command startup script** automating Python venv creation, RSA key generation, environment bootstrapping, and Next.js production build — reducing first-run setup to under 2 minutes.
- Automated CI/CD workflows with **GitHub Actions**, reducing manual deployment overhead via auto patch-version bumping on every `main` merge; maintained across **300+ commits** with documented Cloudflare + Vercel deploy strategy.

MAKAUT Toolkit [Next.js](#) · [React](#) · [TypeScript](#) · [Tailwind CSS](#) · [Vercel](#) [Live](#) · [GitHub](#)

- Designed and shipped **5 GPA calculators** (SGPA/YGPA/CGPA/DGPA/Scholarship) serving **50+ unique MAKAUT students**, implementing institution-specific formulas as pure TypeScript functions with **3-decimal precision** and full input validation.
- Integrated **server-side rendered** live university notice feed (Next.js App Router SSR) fetching from the official MAKAUT API, with NEW-badge tagging, view-toggle UX, and graceful empty-state fallback.
- Built accessible dark-mode-first UI with Radix UI and shadcn/ui, responsive sidebar-to-sheet layout; deployed on **Vercel**.

My Internet Tester [JavaScript ES6+](#) · [HTML5](#) · [Tailwind CSS](#) · [Fetch API](#) [Live](#) · [GitHub](#)

- Built a **zero-backend** browser-based network diagnostics tool measuring real-time latency, DNS-over-HTTPS resolution timing, connection reliability scoring, and **60-second P95 trend analytics** across multiple endpoints.
- Shipped as a **pure static frontend** (no build step, zero runtime dependencies) with jitter testing (30s/1m/2m), one-click timestamped diagnostic report export, and full mobile responsiveness.

EDUCATION

Cooch Behar Government Engineering College 2023 – Expected May 2027

B.Tech in Electronics & Communication Engineering *CGPA: 7.77*

Techno India Group Public School 2017 – 2022

Class X: **90.2%** and Class XII: **84.4%**

ACHIEVEMENTS & CERTIFICATIONS

- Open Source:** Maintains **3+ MIT-licensed public repositories** on GitHub with CI/CD pipelines via GitHub Actions, structured contribution guides, and documented deployment strategies.
- Smart India Hackathon 2024:** Conceptualised a **blockchain-based NFT Marketplace** under the “Blockchain for Cybersecurity” theme. Credential ID: CGEC-2024-SIH-101.
- Google Developer Student Club (GDSC):** Active member at Cooch Behar Government Engineering College.
- Generative AI Fundamentals** — Google, Nov 2023, ID: 5928408 **Intro to Large Language Models** — Google, Nov 2023, ID: 5928547
- Innovating with Data and Google Cloud** — Google, Nov 2023, ID: 5959352
- Foundations of Cybersecurity** — Coursera (Google Career Certificate), Dec 2023, ID: RYXD6KRTFA5Q