

BARSHAN BANERJEE

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OBJECTIVE

Computer Science Engineer with strong skills in JavaScript, React, and modern web development. Experienced in building scalable and production-ready web applications with a focus on performance and user experience. Eager to learn emerging technologies, explore challenging engineering problems, and grow as a full-stack software developer.

SKILLS

Languages : Python, Java, JavaScript.

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

Backend : Node.js, Express.js, REST APIs.

Databases : MySQL, PostgreSQL, Redis.

Tools & Platforms : Git and GitHub, Figma, Webflow, Google Analytics, Jira, Cloudflare, Vercel.

EDUCATION

University of Engineering and Management Kolkata

2022 – 2026

Bachelor of Technology in Computer Science and Information Technology (*CGPA: 8.18*)

Boinchi B.L Mukherjee's Free Institution

2014 – 2022

Higher Secondary Education (*Percentage: 86.68%*)

PROFESSIONAL EXPERIENCE

Software Engineer Intern at Arbitrat

May 2025 to Current

- Developed the front-end of **blackletters.net** with Next.js, a **scalable article and bookstore platform**, implementing dynamic content rendering, API integration, and performance optimizations to deliver a fast, responsive, and user-friendly experience.
- Contributed to frontend development of **inscript.me**, improving **performance, SEO, GEO and content delivery** through optimized rendering and personalized content flows.

PROJECTS

MapFramer - Google Map Link to IFrame Generator

- Built a web platform that transforms Google Maps links into responsive embeddable maps for websites and applications.
- Developed a proprietary **three-layer precision mechanism** combining URL parsing, coordinate resolution, and location validation to accurately process multiple Google Maps link formats.
- Implemented caching and API optimization strategies using **Next.js**, improving response times and scalability for repeated requests.

Rallyo - Complete Event Management Solution

- Designed and developed an end-to-end **event management platform** supporting **event hosting, ticketing, fast check-out, automated certificate generation, participant management, email notifications, and analytics dashboards**.
- Improved **operational efficiency and reliability** by streamlining **check-in, data handling, and reporting workflows**, ensuring **accurate tracking** and a smoother experience for both organizers and participants.

Website for Jigisha - UEMK Quiz Fest

- Revamped and optimized the official **Jigisha quiz fest website**, improving overall performance by **70%** through efficient rendering, asset optimization, and code restructuring.
- Enhanced **SEO, page load speed, and accessibility**, significantly improving visibility and user experience across devices.
- Managed **end-to-end development and deployment**, including performance tuning, content structuring, and hosting setup.

Certifications

- Introduction to Python** from CAD Centre, Jadavpur University.
- Artificial Intelligence and Data Science** from CMATER, Jadavpur University.

ACHIEVEMENTS AND ACTIVITIES

- 1st Runner-Up** in AI/ML Hackathon – **Ramakrishna Mission Vivekananda Educational and Research Institute**.
- Received **Vice-Chancellor's award for Student Excellence** for **proficiency in technical expertise** in the academic year 2024-2025.
- Active quiz enthusiast - **Vice-President of Pragya** - the official **quiz club of UEM Kolkata**.