Bibek Roy

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EDUCATION

B.Tech in Computer Science & Engineering   2023–2026
Central Institute of Technology, Kokrajhar
Current CGPA: 7.91

Diploma in Computer Science & Technology   2019–2022
Siliguri Government Polytechnic, Siliguri
OGPA: 8.3

Matriculation   2019
Sarada Vidya Mandir, Jalpaiguri
Percentage: 76.42

SKILLS

Languages: Python, JavaScript
Frontend: HTML, CSS, React.js, TailwindCSS
Backend: Node.js, Express.js, Firebase
Tools: Git, GitHub

PROJECTS

- **User Profile API:** Built a RESTful API using **Node.js**, **Express.js**, and **MongoDB**. Added secure **JWT** authentication; designed backend architecture and handled full deployment as a sole developer.
- **Movie Browser:** Created a movie app using **React.js** and **Tailwind CSS** with **TMDB API** integration. Designed the UI and optimized data fetching for performance.
- **Portfolio Website:** Built a responsive personal site using **HTML**, **CSS**, and **JavaScript**. Planned, designed, and coded every feature for smooth UX.
- **NGO Website:** Created a professional site using **React.js** and **Tailwind CSS**. Responsible for project planning, UI design, and deployment.
- **Brahmi Script Transliteration (Mini Project):** Led a 4-member team to develop a **Brahmi-to-Devanagari transliteration model** using image-based character recognition. Contributed to dataset collection, image preprocessing, and model training using **machine learning techniques**. Directed project planning, task division, and final presentation of results.

EXPERIENCE

Summer Research Intern — IIT Guwahati (CLST)   *Jun–Jul 2025*

- Developed a model on **Neural Machine Translation (NMT)** for Assamese → English using a Bi-GRU sequence-to-sequence model.
- Carried out dataset preparation tasks: text cleaning, tokenization, and building paired sentence corpora for training and validation.
- Learned other ML techniques such as RNN, LSTM, Transformers

Open Source Contributions

- **JWoC 2024:** Contributed to project codebases — implemented fixes, improved and submitted pull requests.
- **SWoC 2024:** Participated in community-driven projects; assisted with issue resolution, implemented features .

Freelance Project (Admin Panel)

- Developed an **Admin Panel** for a water supply agency using **React**, **Tailwind CSS**, and **Firebase** focused on task management and data visualization.
- Implemented core UI components and data-binding to Firebase for real-time updates and storage.
- Built dashboard views to present key metrics.