SAIKAT SINCHAN GHOSH

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OBJECTIVE

Passionate backend developer and software enthusiast with a strong command of Node.js, Express.js, MongoDB, and modern web technologies. Adept at designing scalable backend systems, optimizing performance, and solving complex problems using Data Structures and Algorithms. Currently honing my skills as a backend developer in the Smart India Hackathon, where I tackle real-world challenges with efficiency and innovation. Eager to contribute to dynamic development teams and build robust software solutions that make an impact.

EDUCATION

Bachelor of Computer Science, Sister Nivedita University · 2023 - 2027

SKILLS

Backend Development:	Backend Development: RESTful APIs, Authentication (JWT, OAuth)
Data Structures & Algorithms:	Arrays, Linked Lists, Trees, Graphs, Dynamic Programming
Problem-Solving:	Competitive Programming, LeetCode, CodeChef
Databases:	MongoDB, Mongoose
Programming Languages:	C, C++, JavaScript
soft skills:	Critical Thinking, problem solving

EXPERIENCE

Smart India Hackathon 2024 — National-Level Competition

- Designed and developed a **scalable backend system** using **Node.js, Express.js, and MongoDB**, ensuring efficient data flow and seamless API communication.
- Built and optimized **RESTful APIs**, enhancing performance and data retrieval efficiency.
- Implemented **secure authentication mechanisms (JWT)** to safeguard user access and improve system security.
- Collaborated with a dynamic team to brainstorm, design, and implement **innovative solutions** to a real-world problem.
- Gained hands-on experience in **debugging, optimizing queries, and handling data-intensive applications** under a time-sensitive environment.

PROJECTS

Collaborative Blog Platform

Developed a **full-stack blogging platform** using **Node.js, Express.js, MongoDB, and EJS** to enable users to **share projects, react to posts, and manage content securely**. Integrated **user authentication** (JWT/Session-based) to ensure secure access control, allowing users to delete their own posts. Designed an intuitive and responsive UI for seamless navigation and engagement. Optimized database queries for **efficient data retrieval and scalability**.

Interactive Notebook for Video Learning

Built a **dynamic note-taking web app** that allows users to add notes instantly while watching videos. Implemented **DOM manipulation** to provide a **real-time and smooth user experience**. Designed the frontend using **Tailwind CSS and Bootstrap** for a responsive and modern UI. Enhanced usability by ensuring seamless interaction with video playback and note synchronization.