Sabittwa Banerjee

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EDUCATION

Techno Main Salt Lake — Kolkata, WB
Bachelor of Technology in Computer Science and Engineering (IoT)–8.34 GPA — 2023 – 2027

Sri Ram Narayan Singh Memorial High School (ISC) — Kolkata, WB
Class 12–Scored 89% — 2022

Sri Ram Narayan Singh Memorial High School (ICSE) — Kolkata, WB
Class 10–Scored 93% — 2020

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, C, SQL, HTML, CSS
Front-End: React.js, Next.js, Bootstrap, Tailwind CSS
Back-End: Node.js, Express.js, Flask, REST APIs, OAuth, Clerk
Databases: PostgreSQL, MongoDB, SQLite
Tools: Git, VS Code, VS Code Extensions

PROJECTS

Coordina | Live Demo | *Next.js, React.js, MongoDB*
- Developed the frontend for a Smart India Hackathon project focused on urban project management.
- Implemented tools for project conflict resolution using a PDF summarizer and Gemini.
- Integrated a discussion forum and AI tools for enhanced collaboration and dispute resolution.
- Enhanced platform functionality to support data-driven insights for urban planning.

Github Diary | VSCode Marketplace | *VS Code Extension, Axios, Github OAuth*
- Created a VS Code extension that automatically tracks coding activity by recording changes to a private GitHub repository.
- Features include smart change tracking with line numbers, configurable auto-commit intervals (default every 30 minutes), and file history tracking (create/rename/delete).
- Integrated GitHub OAuth authentication with secure token storage in VS Code for private repository management.

MealMetric | GitHub | *Node.js, Express.js, PostgreSQL, EJS*
- Developed a dynamic web application to calculate nutritional information for meals based on user-inputted ingredients.
- Utilized PostgreSQL for storing user recipes and ingredient data, implementing full CRUD operations.
- Fetched nutritional information using Axios to query a public API, and displayed real-time totals for users.
- Designed a user-friendly interface for adding recipes, with responsive forms and a nutrition table for real-time feedback.

ACHIEVEMENTS & CERTIFICATIONS

Harvard University's CS50 | View Certificate
- Strengthened foundational knowledge in C, Scratch, data structures and algorithms (DSA), memory management, and database management (SQL).Gained exposure to artificial intelligence, Flask, and cybersecurity principles.

Smart India Hackathon Finalist | *National-Level Competition*
- Finalist in the 2024 edition of the Smart India Hackathon, selected for innovative solutions in urban project coordination and conflict resolution.

Hult Prize On-Campus Round Runner-Up | *Entrepreneurship Challenge*
- Achieved the runner-up position in the Hult Prize On-Campus Round for proposing a sustainable startup idea addressing a global problem.