

Shubhayan Bagchi

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EDUCATION

- **Swami Vivekananda Institute of Science & Technology, Kolkata | MAKAUT** 2022 - present
Bachelor of Technology in Computer Science & Engineering
Coursework: Data Structure and Algorithm, Design & Analysis of Algorithm, DBMS, Operating Systems, Computer Networks, Compiler Design, Fullstack web development

TECHNICAL SKILLS

Languages: SQL, C++(Intermediate), JavaScript, Typescript, HTML, CSS, Python(basics), C
Frontend: React.js, Tailwind CSS, Shadcn, MUI, Bootstrap, Responsive Design
Backend: Node.js, Express.js, Flask(basics), FastAPI(basics), REST APIs, JWT & Cookie-based Auth
Databases: PostgreSQL, MySQL, MongoDB, Database Design & Optimization
ORMs: Mongoose, Prisma
Tools & Technologies: Docker, Git, GitHub, Linux, Postman

PROJECTS

VagDevi.ai

College Tech Fest Winning Project

[Github](#)

- Developed a chatbot with **text-to-text** and **image-to-text** generation using the **Gemini API**.
- Integrated **multilingual response translation** and secure **JWT-based authentication**.
- Built with a modular **React.js frontend**, **Flask backend**, and **MongoDB** for data storage.

Tech Stack: React.js, Flask, Gemini API, MongoDB

Quickbute

[Github](#)

MERN Food Ordering Platform

- Developed a full-stack **MERN-based food ordering web application** simulating real-world e-commerce workflows.
- Implemented secure **JWT-based authentication** with protected routes and role-based access control (User/Admin).
- Designed complete **order lifecycle management** including cart operations, order placement, payment processing, and status updates.
- Integrated **Stripe Payment Gateway** for secure online transactions.
- Built RESTful APIs using **Express.js and MongoDB (Mongoose ODM)** with structured schema design.
- Implemented image uploads using **Multer** and developed an admin dashboard for food and order management.

Tech Stack: MongoDB, Express.js, React.js, Node.js (MERN), JWT, Stripe API, Multer, Context API, REST APIs

Uber (Ongoing)

A full-stack cab booking web application

[Github](#)

- Developing a mobile-first **MERN stack** ride-booking web application inspired by Uber.
- Implementing **role-based authentication** (Rider & Captain) using **JWT with cookie-based session management**.
- Designing complete **ride lifecycle workflows** including booking requests, acceptance, and status tracking.
- Building scalable **RESTful APIs** with Express.js and MongoDB following modular architecture.
- Developing responsive UI using **React.js and Tailwind CSS**, optimized for mobile device view.

Tech Stack: React.js, Tailwind CSS, Express.js, MongoDB, JavaScript, REST APIs

POSITION OF RESPONSIBILITY

- **Group Leader (Coding Club, Swami Vivekananda Institute of Science & Technology, Kolkata)**
Responsibilities: Mentoring juniors in the field of fullstack web development

ACHIEVEMENTS

- **SIH'23 finalist:** Participated in Smart India Hackathon 2023 finale at CGC Landran, Punjab Dec 19-20, 2023