Sudip Sarkar

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Education

Academy of Technology 2022 – Present

Bachelor of Technology in Computer Science and Engineering CGPA: 8.36/10

Chandannagar R.D.P. Institute

Higher Secondary Education (Class XII)

Percentage: 76.50%

Chandannagar R.D.P. Institute

Secondary Education (Class X)

Percentage: 85.28%

Technical Skills

Languages: Java, C, C++, Golang, JavaScript, Python, SQL, HTML/CSS Frameworks & Libraries: React.js, Node.js, Express.js, LangChain

Databases: MongoDB, PostgreSQL, Firebase

Operating Systems: Linux

Projects

Movie Ticket Booking System | Java, Maven, OOP

Github

2021

2019

- Developed a console-based movie ticket booking system like BookMyShow using Java, enabling users to select theatres, shows, and seats with a layered architecture (models, services, controllers).
- Implemented core models (Movie, Theatre, Show, Booking) and enums (City, SeatCategory) to represent real-world entities, with services for managing theatres, shows, and bookings.
- Designed a BookingController to orchestrate user interactions, integrating TheatreService, ShowService, and BookingService for seamless theatre selection and ticket booking.
- Utilized Maven for dependency management and streamlined compilation, ensuring a robust build process with automated dependency resolution and execution.

Parallel Merge Sort Implementation | Java, Multi-Threading, OOP

Github

- Developed a console-based Java application to compare parallel and sequential Merge Sort algorithms, processing a large-sized random array with performance measurement.
- Designed a modular architecture with separate packages (sorters, utils, app), implementing a Sorter interface, ParallelMergeSort, SequentialMergeSort, and utility classes for array generation and merging.
- Utilized ExecutorService for multi-threading, parallelizing left and right subarray sorting with a threshold-based approach to optimize performance for large datasets.
- Implemented a user-driven demonstration mode to compare execution times of parallel and sequential algorithms, showcasing thread overhead effects on smaller arrays.

AI-powered Quiz application | Golang, Python, Javascript, React, Postgresql

Live Demo

- Developed a full-stack interactive quiz platform allowing users to create and share quizzes based on custom topics. Included features such as user authentication, profile customization, and real-time participation.
- Implemented user authentication using Google and email OTP verification for secure login.
- Leveraged AI technology to generate personalized quizzes based on user input.
- Enabled quiz participation, result tracking, and history saving to a database. Provided users with the ability to share quizzes via unique links.

Social Media application | MERN Stack

Live Demo

- Built a full-stack social media application enabling user registration, authentication, and email verification through secure verification links.
- Implemented core features including creating text and image posts, commenting on posts, and saving posts for later.
- Implemented an in-app notification system to inform users about post interactions and updates in real-time.
- Designed an intuitive user interface for smooth user experience and content interaction.
- Integrated backend APIs for handling user data and post interactions efficiently.