Satyaki De

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Summary

CS student skilled in React, Node.js, Java, Spring. Builds responsive apps with clean code through real-world projects.

Education

Kalinga Institute Of Industrial Technology, Btech in Electronics Computer Science

- GPA: 7.29
- **Coursework:** Computer Architecture, Data Structures and Algorithms,Databases,Electronic Circuits,Microprocessors and Embedded Systems and Operating Systems

Projects

A Real-Time Web Based Chat Application

- Built a full-stack real-time chat application enabling one-on-one and group messaging with instant updates using Socket.IO and WebSockets.
- Implemented user authentication using JWT (JSON Web Tokens) and bcrypt for secure login and password storage.
- Designed and integrated MySQL database to manage user data, chat history, and active connections.
- Developed a responsive React.js frontend with seamless routing and user-friendly chat UI for desktop
- Modular RESTful API built with Express.js, ensuring scalable architecture and easy feature integration.
- Tools Used: React.js, Node.js, Socket.IO, MySQL, JWT

RESTful API Projects using Spring Boot

- Developed two REST APIs: Student Management System and To-Do List Application using Spring Boot, H2 Database, and JPA.
- Implemented full CRUD operations (Create, Read, Update, Delete) following RESTful principles..
- Tested APIs thoroughly using Postman for endpoint validation and data integrity
- Applied layered architecture using Controller-Service-Repository design pattern for clean separation of concerns.
- Tools Used: Java, Spring Boot, Spring Data JPA, H2 Database, RESTful APIs, Maven.

Weather Web App

- Developed a responsive weather application that fetches real-time weather data using the OpenWeatherMap API.
- Users can search for any city to get current weather details like temperature, humidity, wind speed, and weather conditions.
- Styled using Bootstrap and custom CSS to ensure a clean, modern, and mobilefriendly user interface.
- Implemented error handling for invalid inputs and API failures, improving user experience.
- Used asynchronous JavaScript (fetch API) for smooth, real-time updates without page reloads.
- Tools Used: HTML, CSS, JavaScript, Bootstrap, OpenWeatherMap API

Technologies

Languages: Java,JavaScript,C,Python

Technologies: Git, GitHub