

# SUBHADEEP DEY

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## EDUCATION

### JADAVPUR UNIVERSITY

B.E - INFORMATION TECHNOLOGY - CGPA - 8.05

2022 – 2026

KOLKATA, WEST BENGAL

## TECHNICAL SKILLS

**Languages:** C++, SQL, JavaScript , TypeScript

**Databases:** Redis, MongoDB

**Technologies/Frameworks:** Tailwind CSS, React, Javascript, Express Js, Node Js, Redux

**Developer Tools:** VS Code, Git, Postman

## PROJECTS

### CodeClash [↗](#) | React, Node JS, MongoDB, Redis, Gemini API, Tailwind CSS, Redux Toolkit, Zod, Judge0 , JWT

- Developed a **LeetCode-style full-stack platform** with **real-time code execution via Judge0** and a dynamic tabbed UI (Description, Submissions, Editorial, Admin Panel, AI Chat).
- Designed secure **authentication using JWT, refresh tokens, HTTP-only cookies**, and protected **logout** by blacklisting tokens in **Redis**; implemented a custom rate limiter with the Sliding Window algorithm in Express and Redis.
- Integrated **Cloudinary for secure video uploads** and optimized delivery of editorial content; enforced **strict schema validation** across the stack using **Zod**.
- Leveraged **Redux Toolkit** for scalable global state management and **achieved 20% performance gains** by reducing redundant computations and database queries.
- Integrated **Gemini AI** for contextual code suggestions and developed a **robust Admin Panel** with full **CRUD** for problem metadata, test cases, templates, and multi-language reference solutions; built **REST APIs** using **Express.js** connected to **MongoDB**.

### CallConnect [↗](#) | React, Node JS, Express, MongoDB, Redis, Zustand, Tailwind CSS, Stream Video , JavaScript

- Developed a **real-time multilingual video learning platform** with native speaker video calls and live chat, integrating **Stream Video SDK for low-latency streaming**.
- Built secure authentication using **JWT, refresh tokens, HTTP-only cookies**, with logout secured by blacklisting tokens in **Redis via custom middleware**.
- Achieved **15% performance gains** by reducing redundant computations and DB queries; managed global app state **using Zustand**.
- Designed responsive UI with **Tailwind CSS** and built **REST APIs** in **Express.js** connected to **MongoDB** for user data, language preferences, and friend management.

### YumRush Frontend [↗](#) | React.js, Tailwind CSS, Redux, JavaScript, Swiggy Public API | Live Demo

- Developed a responsive **Swiggy-like food delivery UI** using **React and Tailwind**, replicating the real app's design and experience.
- Fetched restaurant and menu data from **Swiggy's public API** and dynamically rendered the homepage and individual menus.
- Implemented Add to Cart, cart display, and total calculation features using **Redux for global state management**.
- Built **search and Veg/Non-Veg filter** functionalities to enhance user navigation and improve discoverability of food items.

## COURSEWORK

- Database Management System
- Object Oriented Programming
- Operating System
- Data Structure and Algorithms
- Computer Networks

## ACHIEVEMENTS

- \* Achieved a global ranking of **1407/80000** in **TCS Codevita Season 12 Round 1**
- \* Achieved **Knight batch** on **Leetcode** (Max rating **2016**).
- \* Solved **900+ Problems** and achieved multiple ranks **545 ,718 ,728** out of **35k** participants in **Leetcode Contests**
- \* Achieved **1658 rating (3\*)** and achieved a rank of **265** in **DIV 3 Codechef Starter 148C** on **Codechef** [↗](#).
- \* Achieved a rank of **6624** out of **10 lakh** participants with **99.4 percentile** in **JEE Main 2022**.
- \* Achieved a rank of **639** out of **1.2 lakh** participants in **WBJEE 2022**.