

Suyash Bandi

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TECHNICAL SKILLS

C++, JavaScript, HTML, CSS, React.js, Tailwind, Node.js, Express.js, WebSockets, RESTful APIs, MongoDB, MySQL, Git, GitHub, FFmpeg, HLS/DASH Streaming

PROJECTS

Playlist-Bridge | Node.js, Express, REST API, Vanilla CSS

- Developed and deployed a full-stack web app that converts any public Spotify playlist to corresponding YouTube video links.
- Integrated Spotify and YouTube Data APIs to extract track metadata and perform real-time video search and mapping.
- Enabled live conversion tracking with responsive UI and export options in TXT, CSV, and JSON formats.
- Designed secure API communication with environment-managed credentials and no-login access for public playlists.

CollaBoard – Real-Time Collaborative Whiteboard | React.js, Node.js, Express.js, Socket.IO

- Developed a real-time collaborative whiteboard enabling multiple users to draw simultaneously using stroke-based synchronization.
- Engineered efficient WebSocket communication via Socket.IO for smooth, low-latency multi-user updates.
- Built intuitive drawing tools (pencil, line, rectangle), color picker, and undo/redo functionality using HTML5 Canvas API.
- Implemented room-based collaboration for isolated sessions with persistent socket connections and event-driven updates.

AES Encryption Algorithm Implementation | C++

- Implemented the AES-128 symmetric encryption algorithm to securely encrypt and decrypt files.
- Developed modular C++ code to handle key generation, substitution, permutation, and round transformations.
- Tested the program with multiple file types to ensure data integrity and correctness of encryption/decryption.
- Measured execution time: 1368 microseconds (1 millisecond) per encryption/decryption operation.
- Documented the methodology, explaining each AES step and its role in secure data communication.

ACHIEVEMENTS & CO-CURRICULAR ACTIVITIES

- Adobe India Hackathon – Round 1: Performed structured analysis of unstructured documents using heuristics and machine learning.
- NPTEL Certification: *Introduction to Algorithms and Analysis (IIT Kharagpur)*, Jul–Oct 2024, achieving a consolidated score of 78%.
- Event Team Chief, VITronix Club, VIT Bhopal (2024–25): Organized and managed three major technical events with 300+ participants, ensuring successful execution and high engagement.
- Solved over 250 problems on LeetCode to strengthen data structures and algorithms.

EDUCATION

Vellore Institute of Technology, Bhopal

Bachelor of Technology in Computer Science and Engineering

Bhopal, MP

June 2022 – Present

St. Arnolds Vijaynagar, Indore

Senior Secondary (10th and 12th)

Indore, MP

May 2020 / July 2022