

# Suyash Bandi

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## TECHNICAL SKILLS

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

## PROJECTS

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### Investify (Paper Trading Platform)

- Engineered a real-time self-contained stock exchange simulation (educational paper trading platform).
- Built a custom order-matching engine inspired by NSE/BSE principles using priority queues and structured bid/ask management.
- Implemented trading APIs using Node.js and Express for seamless buy/sell execution.
- Enabled trading across 200+ companies with price updates every 60 seconds and real-time chart updates via Socket.IO.
- Developed the full-stack system using React, Vanilla CSS, MongoDB, MySQL, and Axios for optimized API communication.

### 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.

### AES Encryption Algorithm Implementation | C Programming

- 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

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- Adobe India Hackathon – Round 1: Performed structured analysis of unstructured documents using heuristics and machine learning.
- 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

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### Vellore Institute of Technology, Bhopal

*Bachelor of Technology in Computer Science and Engineering*

Bhopal, MP

*June 2022 – Present*

### St. Arnolds Vijaynagar, Indore

*Senior Secondary (10<sup>th</sup> and 12<sup>th</sup>)*

Indore, MP

*May 2020 / July 2022*