

# RISHIT RANJAN

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## EDUCATION

### Vellore Institute of Technology (VIT)

B.Tech in Computer Science and Engineering

CGPA: 8.15/10.0

July 2022 – Present

## TECHNICAL SKILL

**Programming Languages:** Java, Python, JavaScript, HTML5, CSS3, SQL

**Web Technologies and Databases:** React, Node.js, Flask & REST APIs, MongoDB, Firebase, MySQL

**Tools & Concepts:** Git, CI/CD pipelines, OOP, DSA, Agile

## EXPERIENCE

### Full Stack Developer Intern | MERN stack

June 2024 – October 2024

#### Null Class

- Engineered production-ready MERN solutions supporting 10,000+ concurrent users with microservices architecture
- Developed a real-time notification system with JWT authentication, resulting in a 15% increase in user engagement and a 22% reduction in authentication failures
- Optimized database queries and implemented caching; reduced API response times by 18%

### Web Developer Intern | HTML, CSS and JavaScript

June 2023 – July 2023

#### Internship Studio

- Developed responsive e-commerce platform with 8+ product categories, 500+ concurrent users
- Implemented advanced search and order management; improving the conversion rate
- Optimized front-end performance (lazy loading, code splitting); reduced page load time by 25%

## PROJECTS

### EmotiTunes: Emotion-Based Music Playlist Recommender

React, Gemini API, MIR & AER ML

- Architected real-time emotion detection system (90% accuracy) using multi-modal AI
- Developed intelligent playlist engine curating 10-song personalized lists with genre diversity
- Implemented error handling and offline detection; conducted testing across 10+ scenarios

### ConnectSphere: Real-Time Social Network Platform

React, Firebase, Node.js, Web Crypto API, Cloudinary

- Engineered community platform with real-time feed supporting 1000+ concurrent users; increased announcement reach
- Developed E2E encrypted messaging system with Web Crypto API; protected 1000+ conversations
- Optimized Firebase with query indexing; ensured sub-second feed response times

### The Grey Ink: E-Library Web Application

HTML, CSS, JavaScript, Flask API, ML Model

- Led a 5-person team in developing a book recommendation system with 270,000+ books and 1.1M+ user ratings
- Engineered recommendation algorithm with 40% query performance improvement via NumPy and Pandas
- Implemented JWT authentication, trending algorithm, and advanced search

## CERTIFICATIONS

- Java Development on Oracle Cloud (Oracle University, 2025)
- Salesforce Developer Certification (Salesforce, 2025)
- Software Engineer Intern (HackerRank, 2024)

## ACHIVEMENTS

- Rank 10** – Graph Programming Camp (AlgoUniversity, 2025)
- Finalist** – Hack-a-thon (Odo, 2025)
- Finalist** – Code Gladiators (TechGig, 2024)
- Alpha** – Student Ambassador (Microsoft, 2023)