

Karthik Dommaraju

B.Tech - (2023-27)

Indian Institute Of Technology, Tirupati

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[GitHub](#) | [LinkedIn](#)

EDUCATION

Degree	Specialization	Institute	Year	CGPA/%
B.Tech	Electrical Engineering	IIT Tirupati	2023-Present	8.12
BIEAP	Maths, Physics, Chemistry	Narayana College	2023	98.1%
CBSE	-	Little Angels Public School	2021	97%

PROJECTS

Online Judge Platform

[GitHub](#) | July 2025

- Built a **full-stack online coding judge** supporting **Python, Java, and C++** with secure login/register, email verification, forgot password flow, and **JWT authentication**, integrated with an AI assistant for code feedback and analysis.
- Designed a **modular execution system** to evaluate user-submitted code against **30+** structured test cases and return secure verdicts including **TLE** (Time Limit Exceeded) and **MLE** (Memory Limit Exceeded).
- Built an admin panel to efficiently add and edit problems through seamless hidden test case handling and custom evaluation logic.
- Utilized **Docker containerization** to securely run user-submitted code in isolated environments, and structured backend schemas to support scalable submission and verdict tracking.

Tools & Technologies: Spring Boot, MySQL, React, Docker, Postman, JWT, Gemini API

Real-time Chat Application

[GitHub](#) | May 2025

- Built a **full-stack real-time chat app** with secure authentication and **WebSocket-based instant messaging**.
- Integrated **MongoDB Atlas** for persistent chat history with near-instant, low-latency real-time message delivery.

Tools & Technologies: React, Node.js, Express, Socket.IO, MongoDB, JWT

CLUB PROJECTS

Tirutsava Website — Team Lead

Dec 2025 – Present

- Leading development of the official cultural fest website of IIT Tirupati using **Next.js**.
- Implementing application features and integrating REST APIs while coordinating development and testing within the team.

Tools & Technologies: Next.js, REST APIs, Postman

Inter-IIT Sports Meet

Nov 2025 – Dec 2025

- Developed application components and integrated REST APIs for event-related workflows.

Tools & Technologies: React, REST APIs, Postman

TECHNICAL SKILLS

- Languages:** C++, Java, Python
- Frameworks & Libraries:** React, Spring Boot, Node.js, Express, Next.js, Socket.IO
- Databases & Tools:** MySQL, MongoDB, Docker, GitHub, Postman
- CS Fundamentals:** DSA, OOPs, Operating Systems, DBMS

TECHNICAL PRACTICE

- Solved **280+ problems** on LeetCode, strengthening skills in **DSA**, actively continuing practice. [LeetCode](#)

POSITIONS OF RESPONSIBILITY

- Core Member – Web Dev Domain**, Digital Wizards (Coding Club), IIT Tirupati June 2025 – Present
- Trek Coordinator**, Aranya (Adventure Club), IIT Tirupati Aug. 2024 – May 2025
Coordinated a trek to **Talakona Waterfalls** for **150+ participants**, managing logistics, permissions, and safety.

CERTIFICATIONS

- Web Dev Mentorship Program (Teachnook – Cognizance'24 IIT Roorkee)